

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: January 26, 2006, 14:33:51 : Search time 3793 Seconds
(without alignments)
1961.283 Million cell updates/sec

Title: US-10-691-412-1-G116

Perfect score: 159

Sequence: 1 atgagagaagccatcactc.....tcacgtgatgtctctcga 159

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 2339354128 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

EST:*
1: gb_est1:*
2: gb_est2:*
3: gb_est3:*
4: gb_hic:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_est7:*
9: gb_gse1:*
10: gb_gse2:*
11: gb_gse3:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	157.4	99.0	159	11	D0046231
2	157.4	99.0	376	5	C05636
3	157.4	99.0	383	1	AL599452
4	157.4	99.0	408	1	AL600659
5	157.4	99.0	412	1	AL601169
6	157.4	99.0	412	5	C04012
7	157.4	99.0	426	7	CM411469
8	157.4	99.0	426	7	CM411469
9	157.4	99.0	431	1	AL601173
10	157.4	99.0	433	1	AL600088
11	157.4	99.0	438	5	C02888
12	157.4	99.0	443	1	A1190578
13	157.4	99.0	448	5	C03252
14	157.4	99.0	451	5	C04050
15	157.4	99.0	455	1	AL601166
16	157.4	99.0	477	1	AL599208
17	157.4	99.0	478	1	AL600135
18	157.4	99.0	479	1	AL601279
19	157.4	99.0	482	1	AL601190
20	157.4	99.0	533	5	C03682
21	157.4	99.0	534	1	AJ709272
22	157.4	99.0	534	1	AJ709272

23	157.4	99.0	540	1	AL600427	AL600427 DKF2P313J
24	157.4	99.0	541	1	AJ712160	AJ712160
25	157.4	99.0	543	1	AL600196	AL600196 DKF2P313J
26	157.4	99.0	547	1	AL600489	AL600489 DKF2P313J
27	157.4	99.0	548	1	AJ708988	AJ708988
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29	157.4	99.0	550	3	BP259966	BP259966
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31	157.4	99.0	550	3	BP260274	BP260274
32	157.4	99.0	551	3	BP259171	BP259171
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38	157.4	99.0	556	3	BP257310	BP257310
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40	157.4	99.0	558	3	BP258989	BP258989
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99 157.4 99.0 580 3 BP257171 BP257171
100 157.4 99.0 580 3 BP257191 BP257191

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ALIGNMENTS

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LOCUS DQ046231
DEFINITION Homo sapiens PLN gene, VIRTUAL TRANSCRIPT, partial sequence,
ACCESSION DQ046231
VERSION DQ046231.1 GI:66897446
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
REFERENCE
AUTHORS Nielsen,R., Bustamante,C., Clark,A.G., Gianowski,S., Sackton,T.B.,
Hubisz,M.J., Fledel-Alon,A., Tanenbaum,D.M., Civeello,D.,
White,T.J., Shinsky,J.J., Adams,M.D. and Cargill,M.
TITLE A Scan for Positively Selected Genes in the Genomes of Humans and
Chimpanzees
JOURNAL (et) Plos Biol. 3 (6), E170 (2005)
PUBMED 15869325
REFERENCE
AUTHORS Nielsen,R., Bustamante,C., Clark,A.G., Gianowski,S., Sackton,T.B.,
Hubisz,M.J., Fledel-Alon,A., Tanenbaum,D.M., Civeello,D.,
White,T.J., Shinsky,J.J., Adams,M.D. and Cargill,M.
TITLE Direct Submission
JOURNAL Submitted (05-MAY-2005) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment. Translation starts at the beginning of
alignment.
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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DB 1 ATGAGAAAGTCCATATCTCACTGCTCAGCTATTAAAGAGCTCAACATTGAATG 60
QY 61 CCTCAACAAGCAGCTCAAAAGCTAGAGATCTATTATCAATTTCTGCTCATCTGAATA 120
DB 61 CCTCAACAAGCAGCTCAAAAGCTAGAGATCTATTATCAATTTCTGCTCATCTGAATA 120
QY 121 TGTCTCTTGTGATCTGTATCATCGTATGCTTCTCTGA 159
DB 121 TGTCTCTTGTGATCTGTATCATCGTATGCTTCTCTGA 159
RESULT 2
LOCUS C05636
DEFINITION C05636 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone

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3NH05059, mRNA sequence.
C05636
ACCESSION C05636.1 GI:1468887
VERSION C05636.1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
REFERENCE
AUTHORS Tanaka,T., Ogiwara,A., Uchiyama,I., Takagi,T., Yazaki,Y. and
Nakamura,Y.
TITLE Construction of a normalized directionally cloned cDNA library from
adult heart and analysis of 3040 clones by partial sequencing
JOURNAL Genomics 35 (1), 231-235 (1996)
PUBMED 8661126
COMMENT Contact: Yusuke Nakamura
Institute of Medical Science
University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108, Japan
Tel: 81-3-5449-5372
Fax: 81-3-5449-5433
Email: yusuke@ims.u-tokyo.ac.jp.
FEATURES
source
location/Qualifiers
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGAGAAAGTCCATATCTCACTGCTCAGCTATTAAAGAGCTCAACATTGAATG 60
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QY 121 TGTCTCTTGTGATCTGTATCATCGTATGCTTCTCTGA 159
DB 302 TGTCTCTTGTGATCTGTATCATCGTATGCTTCTCTGA 340

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RESULT 3
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ACCESSION AL599452
VERSION AL599452.1 GI:15162740
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
REFERENCE
AUTHORS Bloeker,H., Boecher,M., Brandt,P., Mewes,W., Weil,B. and
Wiemann,S.
TITLE EST (Bioecker,H., Boecher,M., Brandt,P., Mewes,H.W., Weil,B. and
Wiemann,S.)
JOURNAL Unpublished (1999)
COMMENT Contact: MIPS
MIPS

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Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
Braunschweig/Germany) within the CDNA sequencing consortium of the
German Genome Project.
No sl sequence available.
This clone (DKFP313N0529) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

FEATURES

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1..383
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 203 CCTCAACAGACGCTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTTAATA 262
QY 121 TGTCTCTGCTGATCTGATCATGCTGATGCTTCTCTGA 159
DB 263 TGTCTCTGCTGATCTGATCATGCTGATGCTTCTCTGA 301

RESULT 4 408 bp mRNA linear EST 04-SEP-2003
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LOCUS DKFP31302134 r1 313 (synonym: h1cc2) Homo sapiens cDNA clone
DEFINITION DKFP31302134 5', mRNA sequence.
ACCESSION AL600669
VERSION AL600669.1 GI:15164175
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.

REFERENCE 1 (bases 1 to 408)
AUTHORS Ansoerge,W., Winkler,U., Mewes,W., Weil,B. and Wiemann,S.
TITLE EST (Ansoerge,W., Winkler,U., Mewes,H.W., Weil,B. and Wiemann,S.)
JOURNAL Unpublished (1999)
COMMENT Contact: MIPS
MIPS

Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
Heidelberg/Germany) within the CDNA sequencing consortium of the
German Genome Project.
No sl sequence available.
This clone (DKFP31302134) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

FEATURES

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Location/Qualifiers
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CDNA-collection"

ORIGIN

Query Match 99.0%; Score 157.4; DB 1; Length 408;
Best Local Similarity 99.4%; Pred. No. 2.3e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCCATACCTCAGCTCGCTACGCTATAGAGAGCCTCAACATTGAATG 60
DB 142 ATGAGAAAGTCCATACCTCAGCTCGCTACGCTATAGAGAGCCTCAACATTGAATG 201
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DB 202 CCTCAACAGACGCTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTTAATA 261
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DEFINITION DKFP313C1140 5', mRNA sequence.
ACCESSION AL601169
VERSION AL601169.1 GI:15164675
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.

REFERENCE 1 (bases 1 to 412)
AUTHORS Bloecker,H., Boecker,M., Brandt,P., Mewes,W., Weil,B. and
Wiemann,S.
TITLE EST (Bloecker,H., Boecker,M., Brandt,P., Mewes,H.W., Weil,B. and
Wiemann,S.)
JOURNAL Unpublished (1999)
COMMENT Contact: MIPS
MIPS

Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
Braunschweig/Germany) within the CDNA sequencing consortium of the
German Genome Project.
No sl sequence available.
This clone (DKFP313C1140) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

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Best Local Similarity 99.4%; Pred. No. 2.3e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 126 ATGAGAAAGTCCAAATACCTCACTGCTCAGCTATTAAGAAGCCTCAACATTGAATG 185

OY 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 120
DB 186 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 245

OY 121 TGTCTTGTGCTGATCTGATCATCGTATGCTTCTCTGA 159
DB 246 TGTCTTGTGCTGATCTGATCATCGTATGCTTCTCTGA 284

RESULT 6
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DEFINITION C04012 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone
ACCESSION C04012
VERSION C04012.1 GI:1467263
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
Tanaka,T., Ogiwara,A., Uchiyama,I., Takagi,T., Yazaki,Y. and
Nakamura,Y.
1 (bases 1 to 412)
Construction of a normalized directionally cloned cDNA library from
adult heart and analysis of 3040 clones by partial sequencing
Genomics 35 (1), 231-235 (1996)
8661126
Contact: Yusuke Nakamura
Institute of Medical Science
University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108, Japan
Tel: 81-3-5449-5372
Fax: 81-3-5449-5433
Email: yusuke@ims.u-tokyo.ac.jp.
Location/Qualifiers
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/note="Organ: heart; normalized directionally cloned cDNA
from adult heart"

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Query Match          99.0%; Score 157.4; DB 5; Length 412;
Best Local Similarity 99.4%; Pred. No. 2.3e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ATGAGAAAGTCCAAATACCTCACTGCTCAGCTATTAAGAAGCCTCAACATTGAATG 60
DB 184 ATGAGAAAGTCCAAATACCTCACTGCTCAGCTATTAAGAAGCCTCAACATTGAATG 243

OY 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 120
DB 244 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 303

OY 121 TGTCTTGTGCTGATCTGATCATCGTATGCTTCTCTGA 159
DB 304 TGTCTTGTGCTGATCTGATCATCGTATGCTTCTCTGA 342

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RESULT 7
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DEFINITION AJ710051 Homo sapiens cDNA clone CPM06381, mRNA sequence.
ACCESSION AJ710051
VERSION AJ710051.1 GI:49504346
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 426)
REFERENCE 1
AUTHORS Millino,C.
TITLE Expression profiling of human hypertrophic cardiomyopathy
progressed to dilated cardiomyopathy by DNA microarray analysis
JOURNAL Unpublished (2004)
COMMENT Contact: Millino C
Biology and CHIBI
University of Padova
Via U. Bassi, 58/B, 35131, ITALY.
Location/Qualifiers
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DB 187 ATGAGAAAGTCCAAATACCTCACTGCTCAGCTATTAAGAAGCCTCAACATTGAATG 246

OY 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 120
DB 247 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 306

OY 121 TGTCTTGTGCTGATCTGATCATCGTATGCTTCTCTGA 159
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DEFINITION CN411469 17000600022330 GRN_PRENBU Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN411469
VERSION CN411469.1 GI:47399063
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 426)
REFERENCE 1
AUTHORS Brandenberger,F., Wei,H., Zhang,S., Lei,S., Murage,J., Fisk,G.J.,
Li,Y., Xu,C., Fang,R., Guejler,K., Rao,M.S., Mandalam,R.,
Lebkowski,J. and Stanton,L.W.
Transcriptome characterization elucidates signaling networks that
control human ES cell growth and differentiation
Nat. Biotechnol. 22 (6), 707-716 (2004)
15146197
JOURNAL
PUBMED
COMMENT Contact: Brandenberger R
Regenerative Medicine
Geron Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA

```

Tel: 650 473 8658
 Fax: 650 473 7760
 Email: rbrandenberger@geron.com
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 Location/Qualifiers

FEATURES

1..426

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/tissue_type="Embryonic stem cell, retinoic acid and
 mtogen-treated hES cell line H7"

/clone_lib="GRN PRENEU"

/note="Oligo dt primed, full-length enriched cDNA library
 from hES cell line H7 (p29) maintained in feeder-free
 conditions. Embryoid bodies were generated in the presence
 of all-trans retinoic and mtogens."

ORIGIN

Query Match

99.0%; Score 157.4; DB 7; Length 426;

Best Local Similarity 99.4%; Pred. No. 2.4e-35;

Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATAGAGAGCCTCAACATTGAATG 60

DB 107 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATAGAGAGCCTCAACATTGAATG 166

QY 61 CCTCAACAGCAGCGCAAAAGCTACAGAAATCTTATCAATTTCTCTCATCTGAATA 120

DB 167 CCTCAACAGCAGCGCAAAAGCTACAGAAATCTTATCAATTTCTCTCATCTTAATA 226

QY 121 TGTCTCTTGCTGATCTGTATCATCGTGAATGCTTCTCTGA 159

DB 227 TGTCTCTTGCTGATCTGTATCATCGTGAATGCTTCTCTGA 265

RESULT 9

AL601173

LOCUS DKFZP313C0340.r1 313 (synonym: h1cc2) Homo sapiens cDNA clone

DEFINITION DKFZP313C0340 5', mRNA sequence.

ACCESSION

AL601173

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

Homidae; Homo.

1 (bases 1 to 431)

REFERENCE Bloecher, H., Boecher, M., Brandt, P., Mewes, W., Weil, B. and

Wiemann, S.

EST (Bloecher, H., Boecher, M., Brandt, P., Mewes, H.W., Weil, B. and

Wiemann, S.)

Unpublished (1999)

CONTACT: MIPS

INGOLSTAEDTER LANDSTR. 1, D-85764 NEUBEURG, GERMANY

This is the 5' sequence of the clone insert

Clone from S. Wiemann, Molecular Genome Analysis, German Cancer

Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;

sequenced by GBF (National Research Centre for Biotechnology Ltd.,

Braunschweig/Germany) within the cDNA sequencing consortium of the

German Genome Project.

No sl sequence available.

This clone (DKFZP313C0340) is available at the RZPD in Berlin.

Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059

Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

Location/Qualifiers

1..431

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="DKFZP313C0340"

/dev stage="adult"
 /lab_host="DH10B"
 /clone_lib="313 (synonym: h1cc2)"
 /note="Vector: pTriblex2; Site_1: SfiIA; Site_2: SfiIB;
 cDNA-collection"

ORIGIN

Query Match

99.0%; Score 157.4; DB 1; Length 431;

Best Local Similarity 99.4%; Pred. No. 2.4e-35;

Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATAGAGAGCCTCAACATTGAATG 60

DB 143 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATAGAGAGCCTCAACATTGAATG 202

QY 61 CCTCAACAGCAGCGCAAAAGCTACAGAAATCTTATCAATTTCTCTCATCTGAATA 120

DB 203 CCTCAACAGCAGCGCAAAAGCTACAGAAATCTTATCAATTTCTCTCATCTTAATA 262

QY 121 TGTCTCTTGCTGATCTGTATCATCGTGAATGCTTCTCTGA 159

DB 263 TGTCTCTTGCTGATCTGTATCATCGTGAATGCTTCTCTGA 301

RESULT 10

AL600088

LOCUS DKFZP313C1332.r1 313 (synonym: h1cc2) Homo sapiens cDNA clone

DEFINITION DKFZP313C1332 5', mRNA sequence.

ACCESSION

AL600088

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

Homidae; Homo.

1 (bases 1 to 433)

REFERENCE Bloecher, H., Boecher, M., Brandt, P., Mewes, W., Weil, B. and

Wiemann, S.

EST (Bloecher, H., Boecher, M., Brandt, P., Mewes, H.W., Weil, B. and

Wiemann, S.)

Unpublished (1999)

CONTACT: MIPS

INGOLSTAEDTER LANDSTR. 1, D-85764 NEUBEURG, GERMANY

This is the 5' sequence of the clone insert

Clone from S. Wiemann, Molecular Genome Analysis, German Cancer

Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;

sequenced by GBF (National Research Centre for Biotechnology Ltd.,

Braunschweig/Germany) within the cDNA sequencing consortium of the

German Genome Project.

No sl sequence available.

This clone (DKFZP313C1332) is available at the RZPD in Berlin.

Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059

Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

Location/Qualifiers

1..433

/organism="Homo sapiens"

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/clone="DKFZP313C1332"

/dev stage="adult"

/lab_host="DH10B"

/clone_lib="313 (synonym: h1cc2)"

/note="Vector: pTriblex2; Site_1: SfiIA; Site_2: SfiIB;
 cDNA-collection"

ORIGIN

Query Match 99.0%; Score 157.4; DB 1; Length 433;
 Best Local Similarity 99.4%; Pred. No. 2.4e-35;
 Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTGAATA 120
| | | | |
Db 201 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTTAATA 260
| | | | |
QY 121 TGTCTTGTGCTGATCTGTATCATCGTGAGATCTTCTCTGA 159
| | | | |
Db 261 TGTCTTGTGCTGATCTGTATCATCGTGAGATCTTCTCTGA 299
| | | | |

RESULT 11
C02888 438 bp mRNA linear EST 30-JUL-1996
LOCUS C02888 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone
DEFINITION 3NHC0465, mRNA sequence.
ACCESSION C02888
VERSION C02888.1 GI:1466139
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 438)
Tanaka,T., Ogiwara,A., Uchiyama,I., Takagi,T., Yazaki,Y. and
Nakamura,Y.
TITLE Construction of a normalized directionally cloned cDNA library from
adult heart and analysis of 3040 clones by partial sequencing
JOURNAL Genomics 35 (1), 231-235 (1996)
COMMENT 8661126
Contact: Yusuke Nakamura
Institute of Medical Science
University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108, Japan
Tel: 81-3-5449-5372
Fax: 81-3-5449-5433
Email: yusuke@ims.u-tokyo.ac.jp.

FEATURES
source
1..438
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="3NHC0465"
/dev_stage="adult"
/clone_1ib="Human heart cDNA (Ynakamura)"
/note="Organ: heart; normalised directionally cloned cDNA
from adult heart"

ORIGIN
Query Match 99.0%; Score 157.4; DB 5; Length 438;
Best Local Similarity 99.4%; Pred. No. 2.4e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCCATACCTCACTCGCTCAGCTATATAGAGAGCCCTCAACCATTTGAATG 60
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Db 182 ATGAGAAAGTCCATACCTCACTCGCTCAGCTATATAGAGAGCCCTCAACCATTTGAATG 241
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QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTGAATA 120
| | | | |
Db 242 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTTAATA 301
| | | | |
QY 121 TGTCTTGTGCTGATCTGTATCATCGTGAGATCTTCTCTGA 159
| | | | |
Db 302 TGTCTTGTGCTGATCTGTATCATCGTGAGATCTTCTCTGA 340
| | | | |

RESULT 12
A1190578 443 bp mRNA linear EST 28-OCT-1998
LOCUS A1190578/c
DEFINITION qd60e07.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733892

3' similar to gb:M63603 CARDIAC PHOSPHOLAMBAN (HUMAN);, mRNA
sequence.
A1190578
A1190578.1 GI:3741787
ACCESSION
VERSION
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 443)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
CONTACT: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/BLNI at:
www.bio.linnl.gov/bbrp/image/image.html
Insert length: 654 Std Error: 0.00
Seq primer: -40bp from Gibco.
Location/Qualifiers
1..443
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1733892"
/sex="male"
/lab_host="DH10B"
/clone_1ib="Soares testis NHT"
/note="Vector: pUT7D-Pac (Pharmacia) with a modified
polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA
was prepared from mRNA obtained from Clontech
Laboratories, Inc., and primed with a Not I - oligo(dT)
primer [5']
TGTACCAATCTGAAGTGGAGCGCGCCCAATTTTCTTTTCTTTT 3'].
Double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified pUT73 vector. Library
went through one round of normalization to Cot5, and was
constructed by Bento Soares and M. Fatima Bonaldo."

ORIGIN
Query Match 99.0%; Score 157.4; DB 1; Length 443;
Best Local Similarity 99.4%; Pred. No. 2.4e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCCATACCTCACTCGCTCAGCTATATAGAGAGCCCTCAACCATTTGAATG 60
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Db 421 ATGAGAAAGTCCATACCTCACTCGCTCAGCTATATAGAGAGCCCTCAACCATTTGAATG 362
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QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTGAATA 120
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Db 361 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTTAATA 302
| | | | |
QY 121 TGTCTTGTGCTGATCTGTATCATCGTGAGATCTTCTCTGA 159
| | | | |
Db 301 TGTCTTGTGCTGATCTGTATCATCGTGAGATCTTCTCTGA 263
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RESULT 13
C03252 448 bp mRNA linear EST 30-JUL-1996
LOCUS C03252 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone
DEFINITION 3NHC1144, mRNA sequence.
ACCESSION C03252
VERSION C03252.1 GI:1466503
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
REFERENCE 1 (bases 1 to 448)
 Tanaka,T., Ogiwara,A., Uchiyama,I., Takagi,T., Yazaki,Y. and
 Nakamura,Y.
TITLE Construction of a normalized directionally cloned cDNA library from
 adult heart and analysis of 3040 clones by partial sequencing
JOURNAL Genomics 35 (1), 231-235 (1996)
PUBMED 8661126
COMMENT Contact: Yusuke Nakamura
 Institute of Medical Science
 University of Tokyo
 4-6-1, Shirokanedai, Minato-ku, Tokyo 108, Japan
 Tel: 81-3-5449-5372
 Fax: 81-3-5449-5433
 Email: yusuke@ims.u-tokyo.ac.jp.
FEATURES
 source
 1..448
 location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="3NH01144"
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 /clone_lib="Human heart cDNA (Ynakamura)"
 /note="Organ: heart; normalized directionally cloned cDNA
 from adult heart"

ORIGIN

Query Match 99.0%; Score 157.4; DB 5; Length 448;
 Best Local Similarity 99.4%; Pred. No. 2,4e-35;
 Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGAAGTCGAATACCTCACTGCTCAGCTATATAGAGAGCCTCAACCATTTGAATG 60
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DB 184 ATGGAAGAAGTCGAATACCTCACTGCTCAGCTATATAGAGAGCCTCAACCATTTGAATG 243
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QY 61 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
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DB 244 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 303
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QY 121 TGTCTCTGCTGATCTGTATCATCGTGATGCTTCTCTGA 159
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DB 304 TGTCTCTGCTGATCTGTATCATCGTGATGCTTCTCTGA 342
 |||||

RESULT 14
LOCUS C04050 451 bp mRNA linear EST 30-JUL-1996
DEFINITION C04050 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone
 3NH02620, mRNA sequence.
ACCESSION C04050
VERSION C04050.1 GI:1467301
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
REFERENCE 1 (bases 1 to 451)
 Tanaka,T., Ogiwara,A., Uchiyama,I., Takagi,T., Yazaki,Y. and
 Nakamura,Y.
TITLE Construction of a normalized directionally cloned cDNA library from
 adult heart and analysis of 3040 clones by partial sequencing
JOURNAL Genomics 35 (1), 231-235 (1996)
PUBMED 8661126
COMMENT Contact: Yusuke Nakamura
 Institute of Medical Science
 University of Tokyo
 4-6-1, Shirokanedai, Minato-ku, Tokyo 108, Japan
 Tel: 81-3-5449-5372

FEATURES
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 location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="DKFZp313B0340"
 /dev_stage="adult"
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 /clone_lib="Human heart cDNA (Ynakamura)"
 /note="Organ: heart; normalized directionally cloned cDNA
 from adult heart"

ORIGIN

Query Match 99.0%; Score 157.4; DB 5; Length 451;
 Best Local Similarity 99.4%; Pred. No. 2,4e-35;
 Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGAAGTCGAATACCTCACTGCTCAGCTATATAGAGAGCCTCAACCATTTGAATG 60
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DB 161 ATGGAAGAAGTCGAATACCTCACTGCTCAGCTATATAGAGAGCCTCAACCATTTGAATG 220
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QY 61 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
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DB 221 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 280
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QY 121 TGTCTCTGCTGATCTGTATCATCGTGATGCTTCTCTGA 159
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DB 281 TGTCTCTGCTGATCTGTATCATCGTGATGCTTCTCTGA 319
 |||||

RESULT 15
LOCUS AL601166 455 bp mRNA linear EST 04-SEP-2003
DEFINITION DKFZp313B0340 r1 313 (synonym: h1cc2) Homo sapiens cDNA clone
 DKFZp313B0340 5', mRNA sequence.
ACCESSION AL601166
VERSION AL601166.1 GI:15164672
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
REFERENCE 1 (bases 1 to 455)
 Bloecker,H., Boecker,M., Brandt,P., Mewes,W., Weil,B. and
 Wiemann,S.
AUTHORS EST (Bloecker,H., Boecker,M., Brandt,P., Mewes,W., Weil,B. and
 Wiemann,S.)
TITLE Unpublished (1999)
JOURNAL Contact: MIPS
COMMENT MIPS
 Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
 This is the 5' sequence of the clone insert.
 Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
 Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
 Braunschweig/Germany) within the cDNA sequencing consortium of the
 German Genome Project.
 No sl sequence available.
 This clone (DKFZp313B0340) is available at the RZPD in Berlin.
 Please contact the RZPD: Ressourcententrum, Heubnerweg 6, 14059
 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
FEATURES
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="DKFZp313B0340"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="313 (synonym: h1cc2)"
 /note="Vector: pTriplEx; Site_1: SfiIA; Site_2: SfiIB;

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97	97
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99	99
100	100

Query Match	99.0%;	Score 157.4;	DB 1;	length 455;
Best Local Similarity	99.4%;	Pred. No. 2.4e-35;		
Matches 158; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0

Qy	1	ATGAGGAAGTCCAT	TACTCACTGCGCTAGCTATTAAGAGGCTCCACCATTTGAAG	60
Db	142	ATGGGAAGATCCAA	TACCTCACTGCTAGCTATTAAGAGGCTCCACCATTTGAAG	201
Qy	61	CCTCAACAGCAGC	CAAAAGCTACGATCTATTATCAATTTGCTGCATCTGAATA	120
Db	202	CCTCAACAGCAGC	CAAAAGCTACGAAATCTATTATCAATTTGCTGCATCTTAATA	261
Qy	121	TGTCCTTGCTGAT	CTGTATCATTCGAGATCTTCTCTGA	159
Db	262	TGTCCTTGCTGAT	CTGTATCATTCGAGATCTTCTCTGA	300

RESULT 16
AL599208

ORIGIN	Query Match	99.0%;	Score 157.4;	DB 1;	Length 477;
	Best Local Similarity	99.4%;	Pred. No. 2.4e-35;		
	Matches 158;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0
QY	1	ATGGAGAAAGTCCAATACCTCACTCGCTACGCTATATAGAGAGCCCTCAACCATTTGAATG			60
Db	201	ATGGAGAAAGTCCAATACCTCACTCGCTACGCTATATAGAGAGCCCTCAACCATTTGAATG			260
QY	61	CCTCAACAGACGCTCAAAAGCTACGAATCTATTATCAATTTCTGTCTCATCTGAATA			120

DB	261	121	321
CC	CGTCAACAGCAGTCAAAAGCTAACAGATCTATTATCAATATTCCTGTCATCTTATATA	TGTCTCTGTCTAATCTGTATCAATCGGATGCGTCTCTGA	TGTCTCTGTCTAATCTGTATCAATCGGATGCGTCTCTGA
DB	261	121	321
CGTCAACAGCAGTCAAAAGCTAACAGATCTATTATCAATATTCCTGTCATCTTATATA	TGTCTCTGTCTAATCTGTATCAATCGGATGCGTCTCTGA	TGTCTCTGTCTAATCTGTATCAATCGGATGCGTCTCTGA	

RESULT	17
AL600135	
LOCUS	478 bp mRNA linear EST 04-SEP-2000
DEFINITION	DKEFZj31fP1932..r1 313 (synonym: hicc2) Homo sapiens cDNA clone DKEFzj31fP1932_5', mRNA sequence.
ACCESSION	AF600135
VERSION	AF600135
KEYWORDS	EST.
SOURCE	Homo sapiens ('human')
ORGANISM	Homo sapiens

FEATURES	SOURCE	Location/Qualifiers
ORIGIN		1..478
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		/mol_type="mRNA"
		/db_xref="taxon:9606"
		/clone="DKFZP313F1932"
		/dev_stage="adult"
		/lab_host="DH10B"
		/clone_id="313 (synonym: h1cc2)"
		/note=Vector: pTripleX2; Site_1: SfilA; Site_2: SfilB;
		cDNA-collection"
Query Match	39.0%;	Score 157.4; DB 1; Length 478;
Best Local Similarity	39.4%;	Pred. No. 2.4e-35;
Matches 156; Conservative	0;	Mismatches 1; Indels 0; Gaps 0
Db	1	ATGAGAGAAAGCTCAATACCTCACTGCTGCTAGCTATAGAAGAGCCTCAACCATTTGAAATG 60
Db	142	ATGAGAGAAAGTCAATACCTCACTGCTGCTAGCTATAGAAGAGCCTCAACCATTTGAAATG 201
Db	61	CCCTCAACAGCAGCTCAAGAAAGCTAAGATCATTTATTCATTTCTGCTCATCTGATA 120
Db	202	CCTCAACAGCAGCTCAAGAAAGCTAAGATCATTTATTCATTTCTGCTCATCTGATA 261
Db	121	TGTCCTTGGCTGATCTGATATCATCTGATGCTTCTCTGA 159
Db	262	TGTCCTTGGCTGATCTGATATCATCTGATGCTTCTCTGA 300
RESULT 18		
AL601279	479 bp	mRNA linear EST 04-SEP-200
LOCUS		

DEFINITION DKFPZ313L1640 r1 313 (synonym: h1cc2) Homo sapiens cDNA clone
ACCESSION DKFPZ313L1640 5', mRNA sequence.
VERSION AL601279
KEYWORDS AL601279.1 GI:15164785
SOURCE EST.
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 479)
AUTHORS Bloecker,H., Boecker,M., Brandt,P., Mewes,W., Well,B. and
Wieman,S.
TITLE EST (Bloecker,H., Boecker,M., Brandt,P., Mewes,H.W., Well,B. and
Wieman,S.)
JOURNAL Unpublished (1999)
COMMENT Contact: MIPS
MIPS
Ingolstaedter landstr.1, D-85764 Neuberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wieman, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
sequenced by GBF (National Research Centre for Biotechnology Ltd.,
Braunschweig/Germany) within the cDNA sequencing consortium of the
German Genome Project.
No sl sequence available.
This clone (DKFPZ313L1640) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
Location/Qualifiers
source 1..479
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DKFPZ313L1640"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="313 (synonym: h1cc2)"
/note="Vector: pT7blue2; Site_1: SfiI; Site_2: SfiIB;
cDNA-collection"

ORIGIN
Query Match 99.0%; Score 157.4; DB 1; Length 479;
Best Local Similarity 99.4%; Pred. No. 2.4e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATAGAAGAGCCTCAACCATTTGAATG 60
DB 196 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATAGAAGAGCCTCAACCATTTGAATG 255

QY 61 CCTCAACAGCAGCGTCAAAAGCTACAGAAATCTATTATCAATTTGTCCTCATGTAATG 120
DB 256 CCTCAACAGCAGCGTCAAAAGCTACAGAAATCTATTATCAATTTGTCCTCATGTAATG 315

QY 121 TGTCTCTTGCTGATCTGTATCATCGTGAATGCTTCTCTGA 159
DB 316 TGTCTCTTGCTGATCTGTATCATCGTGAATGCTTCTCTGA 354

RESULT 19
LOCUS AL601190 482 bp mRNA linear EST 04-SEP-2003
DEFINITION DKFPZ313D0840 r1 313 (synonym: h1cc2) Homo sapiens cDNA clone
VERSION DKFPZ313D0840 5', mRNA sequence.
AL601190
AL601190.1 GI:15164696
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 482)

AUTHORS Bloecker,H., Boecker,M., Brandt,P., Mewes,W., Well,B. and
Wieman,S.
TITLE EST (Bloecker,H., Boecker,M., Brandt,P., Mewes,H.W., Well,B. and
Wieman,S.)
JOURNAL Unpublished (1999)
COMMENT Contact: MIPS
MIPS
Ingolstaedter landstr.1, D-85764 Neuberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wieman, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
sequenced by GBF (National Research Centre for Biotechnology Ltd.,
Braunschweig/Germany) within the cDNA sequencing consortium of the
German Genome Project.
No sl sequence available.
This clone (DKFPZ313D0840) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
Location/Qualifiers
source 1..482
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DKFPZ313D0840"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="313 (synonym: h1cc2)"
/note="Vector: pT7blue2; Site_1: SfiI; Site_2: SfiIB;
cDNA-collection"

ORIGIN
Query Match 99.0%; Score 157.4; DB 1; Length 482;
Best Local Similarity 99.4%; Pred. No. 2.4e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATAGAAGAGCCTCAACCATTTGAATG 60
DB 196 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATAGAAGAGCCTCAACCATTTGAATG 255

QY 61 CCTCAACAGCAGCGTCAAAAGCTACAGAAATCTATTATCAATTTGTCCTCATGTAATG 120
DB 256 CCTCAACAGCAGCGTCAAAAGCTACAGAAATCTATTATCAATTTGTCCTCATGTAATG 315

QY 121 TGTCTCTTGCTGATCTGTATCATCGTGAATGCTTCTCTGA 159
DB 316 TGTCTCTTGCTGATCTGTATCATCGTGAATGCTTCTCTGA 354

RESULT 20
LOCUS AJ708798 533 bp mRNA linear EST 30-JUN-2004
DEFINITION AJ708798 CPM01 Homo sapiens cDNA clone CPM03862, mRNA sequence.
AJ708798
AJ708798.1 GI:49503093
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 533)
AUTHORS Millino,C.
TITLE Expression profiling of human hypertrophic cardiomyopathy
progressed to dilated cardiomyopathy by DNA microarray analysis
Unpublished (2004)
JOURNAL Contact: Millino C
COMMENT Biology and CRIBI
University of Padova
Via U. Bassi, 58/B, 35131, ITALY.
1..533
/organism="Homo sapiens"
/mol_type="mRNA"

/db_xref="taxon:9606"
/clone="CMPD03862"
/tissue_type="heart"
/clone_lib="CMPD01"
/note="caucasian"

ORIGIN

Query Match 99.0%; Score 157.4; DB 1; Length 533;
Best Local Similarity 99.4%; Pred. No. 2.4e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAGAAAGTCCATATCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
DB 168 ATGGAGAAAGTCCATATCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 227
QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATTAATTGCTGCTCATCTGAATA 120
DB 228 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATTAATTGCTGCTCATCTGAATA 287
QY 121 TGTCTCTGCTGATCTGATCATCGGATGCTTCTCTGA 159
DB 268 TGTCTCTGCTGATCTGATCATCGGATGCTTCTCTGA 326

RESULT 21

LOCUS C03682 533 bp mRNA linear EST 30-JUL-1996
DEFINITION C03682 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone
3NH2016, mRNA sequence.

ACCESSION C03682
VERSION C03682.1 GI:1466933
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.

REFERENCE 1 (bases 1 to 533)
Tanaka,T., Ogiwara,A., Uchiyama,I., Takagi,T., Yazaki,Y. and
Nakamura,Y.

TITLE Construction of a normalized directionally cloned cDNA library from
adult heart and analysis of 3040 clones by partial sequencing

JOURNAL Genomics 35 (1), 231-235 (1996)

COMMENT

8661126
Contract: Yusuke Nakamura
Institute of Medical Science
University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108, Japan
Tel: 81-3-5449-5372
Fax: 81-3-5449-5433
Email: yusuke@ims.u-tokyo.ac.jp.
Location/Qualifiers

FEATURES

source
1..533
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="3NH2016"
/dev_stage="adult"
/clone_lib="Human heart cDNA (Ynakamura)"
/note="Organ: heart; normalized directionally cloned cDNA
from adult heart"

ORIGIN

Query Match 99.0%; Score 157.4; DB 5; Length 533;
Best Local Similarity 99.4%; Pred. No. 2.4e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAGAAAGTCCATATCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
DB 185 ATGGAGAAAGTCCATATCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 244
QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATTAATTGCTGCTCATCTGAATA 120

DB 245 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATTAATTGCTGCTCATCTGAATA 304
QY 121 TGTCTCTGCTGATCTGATCATCGGATGCTTCTCTGA 159
DB 305 TGTCTCTGCTGATCTGATCATCGGATGCTTCTCTGA 343

RESULT 22

LOCUS AJ709272 534 bp mRNA linear EST 30-JUN-2004
DEFINITION AJ709272 CMPD01 Homo sapiens cDNA clone CMPD04718, mRNA sequence.

ACCESSION AJ709272
VERSION AJ709272.1 GI:49503567
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.

REFERENCE 1 (bases 1 to 534)

AUTHORS

TITLE

Expression profiling of human hypertrophic cardiomyopathy
progressed to dilated cardiomyopathy by DNA microarray analysis
Unpublished (2004)
Contract: Millino C
Biology and CRIBI
University of Padova

Via U. Bassi, 58/B, 35131, ITALY.

FEATURES

source
1..534
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CMPD04718"
/tissue_type="heart"
/clone_lib="CMPD01"
/note="caucasian"

ORIGIN

Query Match 99.0%; Score 157.4; DB 1; Length 534;
Best Local Similarity 99.4%; Pred. No. 2.4e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAGAAAGTCCATATCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
DB 180 ATGGAGAAAGTCCATATCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 239
QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATTAATTGCTGCTCATCTGAATA 120
DB 240 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATTAATTGCTGCTCATCTGAATA 299
QY 121 TGTCTCTGCTGATCTGATCATCGGATGCTTCTCTGA 159
DB 300 TGTCTCTGCTGATCTGATCATCGGATGCTTCTCTGA 338

RESULT 23

LOCUS AL600427 540 bp mRNA linear EST 04-SEP-2003
DEFINITION DKFZP313J1533.p1 313 (synonym: h1cc2) Homo sapiens cDNA clone
DKFZP313J1533.5, mRNA sequence.

ACCESSION AL600427
VERSION AL600427.1 GI:15163933
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.

REFERENCE 1 (bases 1 to 540)

AUTHORS

Koehler,K., Beyer,A., Mewes,W., Weil,B. and Wiemann,S.
EST (Koehler,K., Beyer,A., Mewes,H.W., Weil,B. and Wiemann,S.)
Unpublished (1999)

COMMENT

Contact: MIPS
 Inpolsaedter Landstr.1, D-85764 Neuherberg, Germany
 This is the 5' sequence of the clone insert
 Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
 Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
 sequenced by BMFZ (Biomedical Research Center at the Charite,
 Berlin/Germany) within the cDNA sequencing consortium of the German
 Genome Project.
 No sl sequence available.
 This clone (DKFZp313J1533) is available at the RZPD in Berlin.
 Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

FEATURES

source

1..540
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="DKFZp313J1533"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="313 (synonym: hlcc2)"
 /note="vector: pTriplex2; site_1: sf11A; site_2: sf11B;
 cDNA-collection"

ORIGIN

Query Match 99.0%; Score 157.4; DB 1; Length 540;
 Best Local Similarity 99.4%; Pred. No. 2.5e-35;
 Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 ATGGAGAAGTCATACCTCAGCTGCTCAGCTATAGAGAGCCTCAACATTGAATG 60
 Db 183 ATGGAGAAGTCATACCTCAGCTGCTCAGCTATAGAGAGCCTCAACATTGAATG 242
 Oy 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
 Db 243 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 302
 Oy 121 TGTCTCTTGCTGATCTGATCATCTGATGCTTCTCTGA 159
 Db 303 TGTCTCTTGCTGATCTGATCATCTGATGCTTCTCTGA 341

RESULT 24

AJ712160 541 bp mRNA linear EST 30-JUN-2004
 LOCUS AJ712160 CMPD01 Homo sapiens cDNA clone CMPD10425, mRNA sequence.
 DEFINITION AJ712160
 ACCESSION AJ712160
 VERSION AJ712160.1 GI:49506455
 KEYWORDS EST.
 SOURCE
 ORGANISM Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 541)
 Millino, C.
 Expression profiling of human hypertrophic cardiomyopathy
 progressed to dilated cardiomyopathy by DNA microarray analysis
 Unpublished (2004)
 CONTACT: Millino C
 Biology and CRIBI
 University of Padova
 Via U. Baesi, 58/B, 35131, ITALY.
 Location/Qualifiers
 1..541
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CMPD10425"
 /tissue_type="heart"
 /clone_lib="CMPD01"
 /note="Caucasian"

REFERENCE

AUTHORS

TITLE

JOURNAL
 COMMENT

FEATURES

source

1..541
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CMPD10425"
 /tissue_type="heart"
 /clone_lib="CMPD01"
 /note="Caucasian"

ORIGIN

Query Match 99.0%; Score 157.4; DB 1; Length 541;
 Best Local Similarity 99.4%; Pred. No. 2.5e-35;
 Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 ATGGAGAAGTCATACCTCAGCTGCTCAGCTATAGAGAGCCTCAACATTGAATG 60
 Db 194 ATGGAGAAGTCATACCTCAGCTGCTCAGCTATAGAGAGCCTCAACATTGAATG 253
 Oy 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
 Db 254 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 313
 Oy 121 TGTCTCTTGCTGATCTGATCATCTGATGCTTCTCTGA 159
 Db 314 TGTCTCTTGCTGATCTGATCATCTGATGCTTCTCTGA 352

RESULT 25

AL600196 543 bp mRNA linear EST 04-SEP-2003
 LOCUS DKFZp313J2432 r1 313 (synonym: hlcc2) Homo sapiens cDNA clone
 DEFINITION DKFZp313J2432 5', mRNA sequence.
 ACCESSION AL600196
 VERSION AL600196.1 GI:15163702
 KEYWORDS EST.
 SOURCE
 ORGANISM Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 543)
 Bloecker, H., Boecker, M., Brandt, P., Mewes, W., Weil, B. and
 Wiemann, S.
 EST (Bloecker, H., Boecker, M., Brandt, P., Mewes, W., Weil, B. and
 Wiemann, S.)
 Unpublished (1999)
 CONTACT: MIPS
 MIPS
 Inpolsaedter Landstr.1, D-85764 Neuherberg, Germany
 This is the 5' sequence of the clone insert
 Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
 Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
 sequenced by GBF (National Research Centre for Biotechnology Ltd.,
 Braunschweig/Germany) within the cDNA sequencing consortium of the
 German Genome Project.
 No sl sequence available.
 This clone (DKFZp313J2432) is available at the RZPD in Berlin.
 Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

FEATURES

source

1..543
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
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 /clone_lib="313 (synonym: hlcc2)"
 /note="vector: pTriplex2; site_1: sf11A; site_2: sf11B;
 cDNA-collection"

ORIGIN

Query Match 99.0%; Score 157.4; DB 1; Length 543;
 Best Local Similarity 99.4%; Pred. No. 2.5e-35;
 Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 ATGGAGAAGTCATACCTCAGCTGCTCAGCTATAGAGAGCCTCAACATTGAATG 60
 Db 164 ATGGAGAAGTCATACCTCAGCTGCTCAGCTATAGAGAGCCTCAACATTGAATG 223
 Oy 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120

Db	224	CCTCACAAGACACGCAAAAGCTACAGATCTATTATCAATTCTGTCTCATCTTATA	283
Oy	121	TGTCCTTTCGTGATCTGTATCATGCTGATGCTTCTCTGA	159
Db	284	TGTCCTTTCGTGATCTGTATCATGCTGATGCTTCTCTGA	322
RESULT 26			
LOCUS	AL600489	547 bp	mRNA linear EST 04-SEP-2003
DEFINITION	DKE2p31302033.r1 313 (synonym: h1cc2) Homo sapiens cDNA clone		
	DKE2p31302033 5', mRNA sequence.		
ACCESSION	AL600489		
VERSION	AL600489.1	GI:15163995	
KEYWORDS	EST.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;		
	Hominidae; Homo.		
REFERENCE	1 (bases 1 to 547)		
AUTHORS	Koehrer, K., Beyer, A., Mewes, W., Weil, B. and Wiemann, S.		
TITLE	EST (Koehrer, K., Beyer, A., Mewes, H.W., Weil, B. and Wiemann, S.)		
JOURNAL	Unpublished (1999)		
COMMENT	Contact: MIPS		

VERSION	AJ708988.1	GC:49503283
KEYWORDS	EST.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;	
	Hominidae; Homo.	
REFERENCE	1 (bases 1 to 548)	
AUTHORS	Millino C.	
TITLE	Expression profiling of human hypertrophic cardiomyopathy	
JOURNAL	progressed to dilated cardiomyopathy by DNA microarray analysis	
COMMENT	Unpublished (2004)	
	Contact: Millino C	
	Biology and CFIRI	
	University of Padova	
	Via U. Bassi, 58/B, 35131, ITALY.	
FEATURES	Location/Qualifiers	
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	/tissue_type="heart"	
	/clone_lib="CMPD01"	
	/note="Caucasian"	
ORIGIN		

FEATURES
source 1..547

ORIGIN	Query Match	99.0%	Score 157.4	DB 1	Length 547
	Best Local Similarity	99.4%	Pred. No. 2.5e-35		
	Matches 158	Conservative	0	Mismatches 1	Indels 0
					Gaps 0
QY	1	ATGAGGAAGGCCATTACTCAGCTGCTCAGGTATTAAGAAGAGCCTCAACCATGGAATG	60		
Db	207	ATGGAGAAGTCATTAACCTCACTGCTGAGTAAAGAAGAGCCTCAACCATGGAATG	266		
QY	61	CCTCAACAAGACGTCACAAAGCTACAGATCATTTATCAATTTCTGTCATCTGAATA	120		
Db	267	CCTCAACAAGACGTCACAAAGCTACAGATCATTTATCAATTTCTGTCATCTTAATA	326		
QY	121	TGTCCTTGTGCTGATCTGTATATATCTGTGATGCTTCTCTGA	159		
Db	327	TGTCCTTGTGCTGATCTGTATATATCTGTGATGCTTCTCTGA	365		
RESULT 27					
LOCUS	AJ708988		548 bp	mRNA	linear
DEFINITION	AJ708988	CMPD01	Homo sapiens	CDNA clone	CMPD04183, mRNA sequence.
ACCESSION	AJ708988				

Query Match	Similarity	99.0%	Score	157.4	DB	1	Length	548	
Best Local		99.4%	Pred.	2.5e-35					
Matches	158;	Conservative	0	Mismatches	1	Indels	0	Gaps	0
OY	1	ATGGAGAAAGTC	CAATACTTACTGCTGCAGCTATTAGAAGAGCCCTCACCATTGAATG	60					
Dd	195	ATGGAGAAAGTC	CAATACCTCATCGCTCAGCTATTAAGAAGAGCCCTCAACATTGAATG	254					
OY	61	CCTCAACAGACA	TGTCAAAGCTCACAGATTTATTATCAATTTTGCTCTCATCTGAATA	120					
Dd	255	CCTCAACAGACA	TGTCAAAGCTCAGAGATTTATTATCAATTTTGCTCTCATCTGAATA	314					
OY	121	TGTCTCTGCTG	ATCTGTATCATGATGATGATGCTTCTCTGA	159					
Dd	315	TGTCTCTGCTG	ATCTGTATCATGATGATGATGCTTCTCTGA	353					
RESULT	28								
LOCUS	BP257178		550 bp	mRNA	linear	EST	16-SEP-2004		
DEFINITION	BP257178 Sugano cDNA library, heart Homo sapiens cDNA clone								
ACCESSION	HRT00312								
VERSION	BP257178								
KEYWORDS	BP257178.1 GI 52172408 EST.								
SOURCE	Homo sapiens (human)								
ORGANISM	Homo sapiens								
REFERENCE	Eukaryota; Metazoa; Chordata; Craniota; Vertebrate; Euteleostomi;								
AUTHORS	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.								
TITLE	1 (bases 1 to 550)								
JOURNAL	Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,								
PUBMED	Wizushima-Sugano,J., Nakai,K. and Sugano,S.								
COMMENT	Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions								
	Genome Res. 14 (9), 1711-1718 (2004)								
	Contact: Yutaka Suzuki								
	Department of Virology								
	Institute of Medical Science, University of Tokyo								
	4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan								
	Email: yusuzuki@ims.u-tokyo.ac.jp.								
FEATURES	Location/Qualifiers								
source	1..550								
	/organism="Homo sapiens"								
	/mol_type="mRNA"								

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/db_xref="taxon:9606"
/clone="HRT00312"
/tissue_type="heart"
/clone_lib="Sugano cDNA library, heart"

ORIGIN

Query Match      99.0%; Score 157.4; DB 3; Length 550;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGAAGTCATACCTCACTCGCTCAGTATTAAGAAGCCTCAACCAATTGAATG 60
DB 157 ATGGAAGAAGTCATACCTCACTCGCTCAGTATTAAGAAGCCTCAACCAATTGAATG 226
QY 61 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
DB 227 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 286
QY 121 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 159
DB 287 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 325

RESULT 29
BP259966      550 bp      mRNA      linear      EST 16-SEP-2004
LOCUS      BP259966 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION      HRT08389, mRNA sequence.
ACCESSION      BP259966
VERSION      BP259966.1 GI:52175196
KEYWORDS      EST.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 550)
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers
1..550
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="HRT08389"
/tissue_type="heart"
/clone_lib="Sugano cDNA library, heart"

ORIGIN

Query Match      99.0%; Score 157.4; DB 3; Length 550;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGAAGTCATACCTCACTCGCTCAGTATTAAGAAGCCTCAACCAATTGAATG 60
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QY 61 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
DB 255 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 314
QY 121 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 159
DB 315 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 353

RESULT 31
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LOCUS      BP260274 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION      HRT09384, mRNA sequence.
ACCESSION      BP260274
VERSION      BP260274.1 GI:52175505
KEYWORDS      EST.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 550)
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers
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ORIGIN

Query Match      99.0%; Score 157.4; DB 3; Length 550;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGAAGTCATACCTCACTCGCTCAGTATTAAGAAGCCTCAACCAATTGAATG 60
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DB 315 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 353

RESULT 31
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LOCUS      BP260274 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION      HRT09384, mRNA sequence.
ACCESSION      BP260274
VERSION      BP260274.1 GI:52175505
KEYWORDS      EST.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 550)
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
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RESULT 30
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LOCUS      BP260039 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION      HRT08583, mRNA sequence.
ACCESSION      BP260039
VERSION      BP260039.1 GI:52175269
KEYWORDS      EST.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 550)
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers
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Query Match      99.0%; Score 157.4; DB 3; Length 550;
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QY 1 ATGGAAGAAGTCATACCTCACTCGCTCAGTATTAAGAAGCCTCAACCAATTGAATG 60
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DB 315 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 353

RESULT 31
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LOCUS      BP260274 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION      HRT09384, mRNA sequence.
ACCESSION      BP260274
VERSION      BP260274.1 GI:52175505
KEYWORDS      EST.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 550)
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers
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/clone="HRT08583"
/tissue_type="heart"
/clone_lib="Sugano cDNA library, heart"

ORIGIN

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PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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Query Match 99.0%; Score 157.4; DB 3; Length 550;
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QY 1 ATGGAGAAAGTCCATCTCCTCCTCAGCTATTAAGAGCCTCAACCATTTGAATG 60
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DB 223 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTTAATA 282
QY 121 TGTCTCTTGCTGATCTGATCATCGTATCGTATCTCTCTGA 159
DB 283 TGTCTCTTGCTGATCTGATCATCGTATCGTATCTCTCTGA 321

RESULT 32
BP259171 551 bp mRNA linear EST 16-SEP-2004
LOCUS BP259171 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT05807, mRNA sequence.
ACCESSION BP259171 GI:52174401
VERSION BP259171.1 GI:52174401
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Carchinhini;
Homnidae; Homo.
1 (bases 1 to 551)
Suzuki.Y., Yamashita.R., Shirota.M., Sakakibara.Y., Chiba.J.,
Mizushima-Sugano.J., Nakai.K. and Sugano.S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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QY 1 ATGGAGAAAGTCCATCTCCTCCTCAGCTATTAAGAGCCTCAACCATTTGAATG 60
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QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTGAATA 120
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DB 283 TGTCTCTTGCTGATCTGATCATCGTATCGTATCTCTCTGA 321

DB 195 ATGGAGAAAGTCCATCTCCTCCTCAGCTATTAAGAGCCTCAACCATTTGAATG 254
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DB 255 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTTAATA 314
QY 121 TGTCTCTTGCTGATCTGATCATCGTATCGTATCTCTCTGA 159
DB 315 TGTCTCTTGCTGATCTGATCATCGTATCGTATCTCTCTGA 353

RESULT 33
BP259965 551 bp mRNA linear EST 16-SEP-2004
LOCUS BP259965 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT08385, mRNA sequence.
ACCESSION BP259965
VERSION BP259965.1 GI:52175195
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Carchinhini;
Homnidae; Homo.
1 (bases 1 to 551)
Suzuki.Y., Yamashita.R., Shirota.M., Sakakibara.Y., Chiba.J.,
Mizushima-Sugano.J., Nakai.K. and Sugano.S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

FEATURES
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 212 ATGGAGAAAGTCCATCTCCTCCTCAGCTATTAAGAGCCTCAACCATTTGAATG 271
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DB 272 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTTAATA 331
QY 121 TGTCTCTTGCTGATCTGATCATCGTATCGTATCTCTCTGA 159
DB 332 TGTCTCTTGCTGATCTGATCATCGTATCGTATCTCTCTGA 370

RESULT 34
AL600429 552 bp mRNA linear EST 04-SEP-2003
LOCUS AL600429
DEFINITION DKFZp313j1933.1 313 (synonym: hicc2) Homo sapiens cDNA clone
ACCESSION DKFZp313j1933.5, mRNA sequence.
VERSION AL600429
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1 (bases 1 to 552)
AUTHORS Koehler,K., Beyer,A., Mewes,W., Weil,B. and Wiemann,S.
TITLE EST (Koehler,K., Beyer,A., Mewes,H.W., Weil,B. and Wiemann,S.)
JOURNAL Unpublished (1999)
COMMENT Contact: MIPS
MIPS
Inpolsaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
Sequenced by BMFZ (Biomedical Research Center at the Charité,
Berlin/Germany) within the cDNA sequencing consortium of the German
Genome Project.
No s1 sequence available.
This clone (DKFZp313j1933) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
Location/Qualifiers
1..552
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QY 121 TGTCTCTGCTGATCTGATCATCGTGAATGCTTCTCTGA 159
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DB 293 TGTCTCTGCTGATCTGATCATCGTGAATGCTTCTCTGA 331
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RESULT 35
BP259458 552 bp mRNA linear EST 16-SEP-2004
LOCUS BP259458 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT06808, mRNA sequence.
ACCESSION BP259458
VERSION BP259458.1 GI:52174688
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1 (bases 1 to 552)
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology

Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers
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QY 61 CCTCAACAGACGCGCAAGCTACAGATCTATTATCAATTTCTGCTCATCTGATA 120
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DB 301 TGTCTCTGCTGATCTGATCATCGTGAATGCTTCTCTGA 339
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RESULT 36
BP257543 553 bp mRNA linear EST 16-SEP-2004
LOCUS BP257543 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT01211, mRNA sequence.
ACCESSION BP257543
VERSION BP257543.1 GI:52172773
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1 (bases 1 to 553)
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers
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QY 1 ATGAGAAAGTCATACCTCACTCGCTACGCTATTAAGAAGCCTCAACCATTTGAATG 60
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DB 195 ATGAGAAAGTCATACCTCACTCGCTACGCTATTAAGAAGCCTCAACCATTTGAATG 254
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Db 315 TGTCTTGTGCTGATCTGTATCATCGTGATGCTTCTCTGA 353
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RESULT 37
BP258625 554 bp mRNA linear EST 16-SEP-2004
LOCUS BP258625 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT04008, mRNA sequence.
ACCESSION BP258625
VERSION BP258625.1 GI:52173855
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 554)
AUTHORS Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
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QY 1 ATGGAAGAGTCCATACCTCACTGCTGAGCTATTAAGAGCCCTCAACATTGAATG 60
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Db 255 CCTCAACAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCTCAATA 314
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QY 121 TGTCTTGTGCTGATCTGTATCATCGTGATGCTTCTCTGA 159
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Db 315 TGTCTTGTGCTGATCTGTATCATCGTGATGCTTCTCTGA 353
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RESULT 38
BP257310 556 bp mRNA linear EST 16-SEP-2004
LOCUS BP257310 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT00632, mRNA sequence.
ACCESSION BP257310
VERSION BP257310.1 GI:52172540
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

REFERENCE 1 (bases 1 to 556)
AUTHORS Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
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Query Match 99.0%; Score 157.4; DB 3; Length 556;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
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QY 1 ATGGAAGAGTCCATACCTCACTGCTGAGCTATTAAGAGCCCTCAACATTGAATG 60
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QY 61 CCTCAACAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCTCAATA 120
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QY 121 TGTCTTGTGCTGATCTGTATCATCGTGATGCTTCTCTGA 159
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Db 315 TGTCTTGTGCTGATCTGTATCATCGTGATGCTTCTCTGA 353
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LOCUS BP258394 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT03359, mRNA sequence.
ACCESSION BP258394
VERSION BP258394.1 GI:52173624
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 558)
AUTHORS Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers
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/clone="HRT03359"
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OY 1 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATTAAGAGAGCCTCAACCATTTGAATG 60
 DB 195 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATTAAGAGAGCCTCAACCATTTGAATG 254

OY 61 CCTCAACAGCAGCTCAAAAGCTACAGAAATCTATTATTCATTTCTGCTCATCTGAATA 120
 DB 255 CCTCAACAGCAGCTCAAAAGCTACAGAAATCTATTATTCATTTCTGCTCATCTTAATA 314

OY 121 TGTCTCTTGCTGATCTGATATCATCTGATGCTGCTTCTCTGA 159
 DB 315 TGTCTCTTGCTGATCTGATATCATCTGATGCTTCTCTGA 353

RESULT 40
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 LOCUS BP258989 Sugano cDNA library, heart Homo sapiens cDNA clone
 DEFINITION HRT05216, mRNA sequence.
 ACCESSION BP258989
 VERSION BP258989.1 GI:52174219
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 558)
 Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
 Mizushima-Sugano,J., Nakai,K. and Sugano,S.
 Sequence comparison of human and mouse genes reveals a homologous
 block structure in the promoter regions
 Genome Res. 14 (9), 1711-1718 (2004)
 15342556
 JOURNAL Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ims.u-tokyo.ac.jp.
 COMMENT Location/Qualifiers
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OY 1 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATTAAGAGAGCCTCAACCATTTGAATG 60
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OY 61 CCTCAACAGCAGCTCAAAAGCTACAGAAATCTATTATTCATTTCTGCTCATCTGAATA 120
 DB 256 CCTCAACAGCAGCTCAAAAGCTACAGAAATCTATTATTCATTTCTGCTCATCTTAATA 315

OY 121 TGTCTCTTGCTGATCTGATATCATCTGATGCTGCTTCTCTGA 159
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RESULT 41
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 559)
 Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S.,
 Krizman,D., Kucaba,T., Lacy,M., Le,N., Lemon,G., Matra,M.,
 Martin,J., Moore,B., Scheinberg,K., Steptoe,M., Tan,F.,
 Theising,B., White,Y., Wylie,T., Waterston,R. and Wilson,R.
 WashU-NCI human EST Project
 Unpublished (1997)
 JOURNAL Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LIND; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Seq primer: -40UP from Gidco
 High quality sequence stop: 448.
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 strand cDNA was primed with a Not I - oligo(dT) primer (5'
 TGTACCAATCTGAAGTGGAGCGGCGCCCTTTTTTTTTTTTTTTTTT
 3'); double-stranded cDNA was ligated to Eco RI adaptors
 [5' AATCACTAGTAAT 3' and 5' ATTACTAGG 3'], digested
 with Not I and cloned into the Not I and Eco RI sites of
 the modified pT73 vector. Library constructed by Bob
 Bartshead."

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Query Match 99.0%; Score 157.4; DB 1; Length 559;
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OY 1 ATGAGAAAGTCGAATACCTCACTGCTCAGCTATTAAGAGAGCCTCAACCATTTGAATG 60
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OY 61 CCTCAACAGCAGCTCAAAAGCTACAGAAATCTATTATTCATTTCTGCTCATCTGAATA 120
 DB 358 CCTCAACAGCAGCTCAAAAGCTACAGAAATCTATTATTCATTTCTGCTCATCTTAATA 299

OY 121 TGTCTCTTGCTGATCTGATATCATCTGATGCTGCTTCTCTGA 159
 DB 298 TGTCTCTTGCTGATCTGATATCATCTGATGCTTCTCTGA 260

RESULT 42
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 LOCUS BP260265 Sugano cDNA library, heart Homo sapiens cDNA clone
 DEFINITION HRT09360, mRNA sequence.
 ACCESSION BP260265

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ORGANISM     Homo sapiens
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             Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
             Homiidae; Homo.
REFERENCE    1 (bases 1 to 559)
AUTHORS      Suzuki, Y., Yamashita, R., Shirota, M., Sakakibara, Y., Chiba, J.,
TITLE        Mizushima-Sugano, J., Nakai, K. and Sugano, S.
             Sequence comparison of human and mouse genes reveals a homologous
             block structure in the promoter regions
JOURNAL      Genome Res. 14 (9), 1711-1718 (2004)
PUBMED       15342556
COMMENT      Contact: Yutaka Suzuki
             Department of Virology
             Institute of Medical Science, University of Tokyo
             4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
             Email: yusuzuki@ims.u-tokyo.ac.jp.
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      1 ATGGAAGAAAGTCCATACCTCACTGCTCAGCTATTAAGAAGCCTCAACATTGAATG 60
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DB      315 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 353
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LOCUS       BP257291          560 bp      mRNA      linear      EST 16-SEP-2004
DEFINITION BP257291 Sugano cDNA library, heart Homo sapiens cDNA clone
            HRT00595, mRNA sequence.
ACCESSION   BP257291
VERSION     BP257291.1  GI:52172521
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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            Homiidae; Homo.
REFERENCE    1 (bases 1 to 560)
AUTHORS      Suzuki, Y., Yamashita, R., Shirota, M., Sakakibara, Y., Chiba, J.,
TITLE        Mizushima-Sugano, J., Nakai, K. and Sugano, S.
             Sequence comparison of human and mouse genes reveals a homologous
             block structure in the promoter regions
JOURNAL      Genome Res. 14 (9), 1711-1718 (2004)
PUBMED       15342556
COMMENT      Contact: Yutaka Suzuki
             Department of Virology
             Institute of Medical Science, University of Tokyo
             4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
             Email: yusuzuki@ims.u-tokyo.ac.jp.
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DB      324 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 362
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ACCESSION   AL600477
VERSION     AL600477.1  GI:15163983
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SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
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            Homiidae; Homo.
REFERENCE    1 (bases 1 to 561)
AUTHORS      Koehner, K., Beyer, A., Mewes, W., Weil, B. and Wiemann, S.
TITLE        EST (Koehner, K., Beyer, A., Mewes, H.W., Weil, B. and Wiemann, S.)
JOURNAL      Unpublished (1999)
COMMENT      Contact: MIPS
            MIPS
            Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
            This is the 5' sequence of the clone insert
            Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
            Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
            sequenced by BMFZ (Biomedical Research Center at the Charite,
            Berlin/Germany) within the cDNA sequencing consortium of the German
            Genome Project.
            No si sequence available.
            This clone (DKFZP313N2433) is available at the RZPD in Berlin.
            Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
            Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
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Qy 121 TGTCTCTTGCTGATCTGATATCATCGTATGCTTCTCTGA 159
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RESULT 45
BP257982 561 bp mRNA linear EST 16-SEP-2004
LOCUS BP257982 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HR02342, mRNA sequence.
ACCESSION BP257982
VERSION BP257982.1 GI:52173212
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
REFERENCE 1 (bases 1 to 561)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED
15342556
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

FEATURES
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Qy 184 ATGGAAGAAGTCCATACCTCACTGCTCAGCTATAGAAGGCTCAACCATTAAGT 243
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Qy 304 TGTCTCTTGCTGATCTGATATCATCGTATGCTTCTCTGA 342

RESULT 46
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LOCUS BP258939 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HR05022, mRNA sequence.
ACCESSION BP258939
VERSION BP258939.1 GI:52174169
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SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
REFERENCE 1 (bases 1 to 561)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED
15342556
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 ATGGAAGAAGTCCATACCTCACTGCTCAGCTATAGAAGGCTCAACCATTAAGT 60
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Qy 316 TGTCTCTTGCTGATCTGATATCATCGTATGCTTCTCTGA 354

RESULT 47
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LOCUS BP257744 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HR01757, mRNA sequence.
ACCESSION BP257744
VERSION BP257744.1 GI:52172974
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
REFERENCE 1 (bases 1 to 562)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED
15342556
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

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DB 163 ATGGAGAAAGTCATACCTCACTGCTGCTAGCTATTAAGAGAGCCCAACCATTTGAAATG 222
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QY 61 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCGTCTCATCTGAATA 120
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DB 283 TGTCTCTTGCTGATCTGTATCATCGTATGATGCTTCTCTGA 321
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RESULT 48
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ACCESSION         BP258507
VERSION           BP258507.1 GI:52173737
KEYWORDS          EST.
SOURCE            Homo sapiens (human)
ORGANISM          Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE         1 (bases 1 to 562)
AUTHORS          Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
                  Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE            Sequence comparison of human and mouse genes reveals a homologous
                  block structure in the promoter regions
JOURNAL           Genome Res. 14 (9), 1711-1718 (2004)
PUBMED           15342556
COMMENT           Contact: Yutaka Suzuki
                  Department of Virology
                  Institute of Medical Science, University of Tokyo
                  4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                  Email: yusuzuki@ims.u-tokyo.ac.jp.
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RESULT 49
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DEFINITION        BP257372 Sugano cDNA library, heart Homo sapiens cDNA clone
ACCESSION         BP257372
VERSION           BP257372.1 GI:52172602
KEYWORDS          EST.
SOURCE            Homo sapiens (human)
ORGANISM          Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE         1 (bases 1 to 563)
AUTHORS          Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
                  Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE            Sequence comparison of human and mouse genes reveals a homologous
                  block structure in the promoter regions
JOURNAL           Genome Res. 14 (9), 1711-1718 (2004)
PUBMED           15342556
COMMENT           Contact: Yutaka Suzuki
                  Department of Virology
                  Institute of Medical Science, University of Tokyo
                  4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                  Email: yusuzuki@ims.u-tokyo.ac.jp.
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QY 61 CCTCAACAAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCGTCTCATCTGAATA 120
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QY 121 TGTCTCTTGCTGATCTGTATCATCGTATGATGCTTCTCTGA 159
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DB 316 TGTCTCTTGCTGATCTGTATCATCGTATGATGCTTCTCTGA 354
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RESULT 50
BP257855          563 bp      mRNA      linear      EST 16-SEP-2004
LOCUS             BP257855
DEFINITION        BP257855 Sugano cDNA library, heart Homo sapiens cDNA clone
ACCESSION         BP257855
VERSION           BP257855.1 GI:52173085
KEYWORDS          EST.
SOURCE            Homo sapiens (human)
ORGANISM          Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE         1 (bases 1 to 563)
AUTHORS          Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
                  Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE            Sequence comparison of human and mouse genes reveals a homologous
                  block structure in the promoter regions
JOURNAL           Genome Res. 14 (9), 1711-1718 (2004)
PUBMED           15342556

```

COMMENT Contact: Yutaka Suzuki
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4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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1 ATGGAAGAAGTCATACCTCAGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
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RESULT 51
LOCUS BP259242 563 bp mRNA linear EST 16-SEP-2004
DEFINITION BP259242 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT05987, mRNA sequence.
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VERSION BP259242.1 GI:52174472
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
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Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 563)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED
Contact: Yutaka Suzuki
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Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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Best Local Similarity 99.4%; Pred. No. 2.5e-35;
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RESULT 52
LOCUS BP259967 563 bp mRNA linear EST 16-SEP-2004
DEFINITION BP259967 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT08393, mRNA sequence.
ACCESSION BP259967
VERSION BP259967.1 GI:52175197
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 563)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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Qy 121 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 159
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Db 283 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 321
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RESULT 53
LOCUS BP257798 564 bp mRNA linear EST 16-SEP-2004
DEFINITION BP257798 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT01902, mRNA sequence.
ACCESSION BP257798
VERSION BP257798.1 GI:52173028
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo

REFERENCE
AUTHORS 1 (bases 1 to 564)
TITLE Suzuki, Y., Yamashita, R., Shirota, M., Sakakibara, Y., Chiba, J., Mizushima-Sugano, J., Nakai, K. and Sugano, S.
JOURNAL Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
PUBMED Genome Res. 14 (9), 1711-1718 (2004)
15342556
COMMENT Contact: Yutaka Suzuki
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Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
location/Qualifiers

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RESULT 54
BP258491 564 bp mRNA linear EST 16-SEP-2004
LOCUS BP258491 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT03612, mRNA sequence.
ACCESSION BP258491
VERSION BP258491.1 GI:52173721
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
AUTHORS 1 (bases 1 to 564)
TITLE Suzuki, Y., Yamashita, R., Shirota, M., Sakakibara, Y., Chiba, J., Mizushima-Sugano, J., Nakai, K. and Sugano, S.
JOURNAL Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
PUBMED Genome Res. 14 (9), 1711-1718 (2004)
15342556
COMMENT Contact: Yutaka Suzuki
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Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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DB 247 CCTCAACAAGCAGTCAAAAGCTACAGATCTATTATTAATTCTGCTCATCTTAATA 306
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DB 307 TGTCTTGTGCTGATCTGATCATCGTGATGCTTCTCTGA 345

RESULT 55
BP258958 564 bp mRNA linear EST 16-SEP-2004
LOCUS BP258958 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT05067, mRNA sequence.
ACCESSION BP258958
VERSION BP258958.1 GI:52174188
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
AUTHORS 1 (bases 1 to 564)
TITLE Suzuki, Y., Yamashita, R., Shirota, M., Sakakibara, Y., Chiba, J., Mizushima-Sugano, J., Nakai, K. and Sugano, S.
JOURNAL Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
PUBMED Genome Res. 14 (9), 1711-1718 (2004)
15342556
COMMENT Contact: Yutaka Suzuki
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Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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QY 121 TGTCTTGTGCTGATCTGATCATCGTGATGCTTCTCTGA 159
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RESULT 56
BP259773 564 bp mRNA linear EST 16-SEP-2004
LOCUS BP259773 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HR07672, mRNA sequence.
ACCESSION BP259773
VERSION BP259773.1 GI:52175003
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
1 (bases 1 to 564)
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
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DB 283 TGTCTCTTGCTGATCTGTATCATGCTGATGCTTCTCTGA 321
RESULT 57
BP258798 565 bp mRNA linear EST 16-SEP-2004
LOCUS BP258798 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HR04601, mRNA sequence.
ACCESSION BP258798
VERSION BP258798.1 GI:52174028
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
1 (bases 1 to 565)
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki

Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
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QY 1 ATGAGAAAGTCCAACTACCTCCTGCTCAGCTATAGAGAGCCTCAACCATTTGAATG 60
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DB 304 TGTCTCTTGCTGATCTGTATCATGCTGATGCTTCTCTGA 342
RESULT 58
BP258858 565 bp mRNA linear EST 16-SEP-2004
LOCUS BP258858 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HR04753, mRNA sequence.
ACCESSION BP258858
VERSION BP258858.1 GI:52174088
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
1 (bases 1 to 565)
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGAGAAAGTCCAACTACCTCCTGCTCAGCTATAGAGAGCCTCAACCATTTGAATG 60
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QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGATCTATTATCATTTCTGCTCATCTGAATA 120
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RESULT 59
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LOCUS BP260005 565 bp mRNA linear EST 16-SEP-2004
DEFINITION HRT08486, mRNA sequence.
ACCESSION BP260005
VERSION BP260005.1 GI:52175235
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.
1 (bases 1 to 565)
Suzuki, Y., Yamashita, R., Shiota, M., Sakakibara, Y., Chiba, J.,
Mizushima-Sugano, J., Nakai, K. and Sugano, S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED 15342556
TITLE Contact: Yutaka Suzuki
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Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

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1..565
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAGAAAGTCCATTAACCTCACTCGCTCAGCTATTAAGAAGCCCTCAACCATTTGAATG 60
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RESULT 60
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DEFINITION DKFZD31300131_5', mRNA sequence.
ACCESSION AL600027
VERSION AL600027.1 GI:15163315
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.

REFERENCE
AUTHORS Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.
1 (bases 1 to 566)
Wambutt, R., Haubner, D., Mewes, W., Weill, B. and Wiemann, S.
EST (Wambutt, R., Haubner, D., Mewes, W., Weill, B. and Wiemann, S.)
Unpublished (1999)
CONTACT: MIPS

JOURNAL
PUBMED 15342556
TITLE Ingolstaedter Landstr. 1, D-85764 Neuberg, Germany
This is the 5' sequence of the clone insert
Cloned from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
sequenced by NGCWA (Berlin/Germany) within the cDNA sequencing
consortium of the German Genome Project.
No sl sequence available.
This clone (DKFZD31300131) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

FEATURES
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1..566
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Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAGAAAGTCCATTAACCTCACTCGCTCAGCTATTAAGAAGCCCTCAACCATTTGAATG 60
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RESULT 61
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DEFINITION HRT05457, mRNA sequence.
ACCESSION BP259059
VERSION BP259059.1 GI:52174289
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.

JOURNAL
PUBMED 15342556
TITLE Suzuki, Y., Yamashita, R., Shiota, M., Sakakibara, Y., Chiba, J.,
Mizushima-Sugano, J., Nakai, K. and Sugano, S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

CONTACT: Yutaka Suzuki
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4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

FEATURES
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Location/Qualifiers
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Query Match 99.0%; Score 157.4; DB 3; Length 566;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGAAGTCATTAACCTCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
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DB 163 ATGGAAGAAGTCATTAACCTCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 222
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QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGAATCTATTATCAATTTCTGTCATCTGAATA 120
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DB 283 TGTCTCTGCTGATCTGTATCATCTGATCTGCTCTCTGA 321
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RESULT 62
BP260148 566 bp mRNA linear EST 16-SEP-2004
LOCUS
DEFINITION BP260148 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT08884, mRNA sequence.
ACCESSION BP260148.1 GI:52175379
VERSION
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 566)
Suzuki,Y., Yamashita,R., Hirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
JOURNAL
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

FEATURES
source
Location/Qualifiers
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Query Match 99.0%; Score 157.4; DB 3; Length 566;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGAAGTCATTAACCTCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
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QY 121 TGTCTCTGCTGATCTGTATCATCTGATCTGCTCTCTGA 159
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DB 304 TGTCTCTGCTGATCTGTATCATCTGATCTGCTCTCTGA 342
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RESULT 63
BP257381 567 bp mRNA linear EST 16-SEP-2004
LOCUS
DEFINITION BP257381 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT00807, mRNA sequence.
ACCESSION BP257381
VERSION BP257381.1 GI:52172611
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 567)
Suzuki,Y., Yamashita,R., Hirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
JOURNAL
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

FEATURES
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ORIGIN

Query Match 99.0%; Score 157.4; DB 3; Length 567;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGAAGTCATTAACCTCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
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QY 121 TGTCTCTGCTGATCTGTATCATCTGATCTGCTCTCTGA 159
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DB 283 TGTCTCTGCTGATCTGTATCATCTGATCTGCTCTCTGA 321
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RESULT 64
BP258471 567 bp mRNA linear EST 16-SEP-2004
LOCUS
DEFINITION BP258471 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT03544, mRNA sequence.
ACCESSION BP258471
VERSION BP258471.1 GI:52173701
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 567)
Suzuki,Y., Yamashita,R., Hirota,M., Sakakibara,Y., Chiba,J.,

TITLE Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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ORIGIN

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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCCATACCTGCTGCTGAGCTATTAAGAAGCCTCAACCATTTGAATG 60
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223 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTTAATA 282
QY 121 TGTCTCTTGCTGATCTGTATCATCGTGAGCTTCTCTGA 159
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Db 283 TGTCTCTTGCTGATCTGTATCATCGTGAGCTTCTCTGA 321

RESULT 65
BP260314 567 bp mRNA linear EST 16-SEP-2004
LOCUS BP260314 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT09485, mRNA sequence.
ACCESSION BP260314
VERSION BP260314.1 GI:52175545
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 567)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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/organism="Homo sapiens"
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ORIGIN

Query Match 99.0%; Score 157.4; DB 3; Length 567;
Best Local Similarity 99.4%; Pred.No.2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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246 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTTAATA 305
Db 121 TGTCTCTTGCTGATCTGTATCATCGTGAGCTTCTCTGA 159
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Db 306 TGTCTCTTGCTGATCTGTATCATCGTGAGCTTCTCTGA 344

RESULT 66
BP257983 568 bp mRNA linear EST 16-SEP-2004
LOCUS BP257983 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT02348, mRNA sequence.
ACCESSION BP257983
VERSION BP257983.1 GI:52173213
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 568)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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ORIGIN

Query Match 99.0%; Score 157.4; DB 3; Length 568;
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 121 TGTCTCTTGCTGATCTGTATCATCGTGAGCTTCTCTGA 159
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Db 283 TGTCTCTTGCTGATCTGTATCATCGTGAGCTTCTCTGA 321

RESULT 67
BP258837 568 bp mRNA linear EST 16-SEP-2004
LOCUS BP258837 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT04703, mRNA sequence.

ACCESSION BP258837 GI:52174067
 VERSION BP258837.1
 KEYWORDS EST
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE 1 (bases 1 to 568)
 AUTHORS Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.
 TITLE Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
 JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
 PUBMED 15342556
 COMMENT Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ims.u-tokyo.ac.jp.
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 QY 121 TGTCTCTTGCTGATCTGATCATGCTGATGCTTCCTCTGA 159
 DB 304 TGTCTCTTGCTGATCTGATCATGCTGATGCTTCCTCTGA 342
 RESULT 68
 BP259285 568 bp mRNA linear EST 16-SEP-2004
 LOCUS BP259285 Sugano cDNA library, heart Homo sapiens cDNA clone
 DEFINITION HRT06106, mRNA sequence.
 ACCESSION BP259285
 VERSION BP259285.1 GI:52174515
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE 1 (bases 1 to 568)
 AUTHORS Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.
 TITLE Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
 JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
 PUBMED 15342556
 COMMENT Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ims.u-tokyo.ac.jp.
 FEATURES
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 QY 121 TGTCTCTTGCTGATCTGATCATGCTGATGCTTCCTCTGA 159
 DB 315 TGTCTCTTGCTGATCTGATCATGCTGATGCTTCCTCTGA 353
 RESULT 69
 BP257604 569 bp mRNA linear EST 16-SEP-2004
 LOCUS BP257604 Sugano cDNA library, heart Homo sapiens cDNA clone
 DEFINITION HRT01347, mRNA sequence.
 ACCESSION BP257604
 VERSION BP257604.1 GI:52172834
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE 1 (bases 1 to 569)
 AUTHORS Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.
 TITLE Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
 JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
 PUBMED 15342556
 COMMENT Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ims.u-tokyo.ac.jp.
 FEATURES
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 QY 1 ATGAGAAAGTCATACCTCAGCTCAGCTATAGAGAGCCTCAACCATTTGAATG 60
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QY	121	TGTCCTGCGATCTGATATCATGTAATGCTTCCTGA	159
Db	283	TGTCCTGCGATCTGATATCATGTAATGCTTCCTGA	321
RESULT 70			
LOCUS	BP258334	569 bp	linear
DEFINITION	BP258334 Sugano cDNA library, heart Homo sapiens cDNA clone		
ACCESSION	HR003219	mrna	EST 16-SEP-2004
VERSION	BP258334		
KEYWORDS	BP258334.1 GI:52173564		
SOURCE	EST.		
ORGANISM	Homo sapiens (human)		
REFERENCE	Homo sapiens		
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.		
TITLE	1 (bases 1 to 569)		
JOURNAL	Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,U., Mizushima-Sugano,J., Nakai,K. and Sugano,S.		
COMMENT	Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions		
FEATURES	Genome Res. 14 (9), 1711-1718 (2004)		
source	15342556		
source	Contact: Yutaka Suzuki		
source	Department of Virology		
source	Institute of Medical Science, University of Tokyo		
source	4-6-1, Shirokanedai, Minatoku Tokyo 108-8639, Japan		
source	Email: yusuzuki@ims.u-tokyo.ac.jp.		
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Best Local Similarity	99.4%;	Pred. NO. 2.5e-35;	
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QY	61	CCTCAACAGCAGCTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTGATA	120
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QY	121	TGTCCTGCGATCTGATATCATGTAATGCTTCCTGA	159
Db	283	TGTCCTGCGATCTGATATCATGTAATGCTTCCTGA	321
RESULT 71			
LOCUS	BP258723	569 bp	mrna
DEFINITION	BP258723 Sugano cDNA library, heart Homo sapiens cDNA clone		
ACCESSION	HR004382	mrna	EST 16-SEP-2004
VERSION	BP258723		
KEYWORDS	BP258723.1 GI:52173953		
SOURCE	EST.		
ORGANISM	Homo sapiens (human)		
REFERENCE	Homo sapiens		
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo		
REFERENCE	1 (bases 1 to 569)		
AUTHORS	Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,U., Mizushima-Sugano,J., Nakai,K. and Sugano,S.		

TITLE	Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
JOURNAL	Genome Res. 14 (9), 1711-1718 (2004)
PUBMED	15342556
COMMENT	Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokane-dai, Minato-ku, Tokyo 108-8639, Japan Email: yusuzuki@ims.u-tokyo.ac.jp. location/Qualifiers
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Best Local Similarity	99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative	0; Mismatches 1; Indels 0; Gaps 0;
Qy	1 ATGAGGAAGTCACATACCTCACCGCTGCATATAGAAGGCTCAACCATGAATG 60
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Qy	121 TGTCCTTGCTGATCTGTATCATCGTATGATGCTTCTCGA 159
Db	319 TGTCCTTGCTGATCTGTATCATCGTATGATGCTTCTCGA 357
RESULT 72	
BP259517	569 bp mRNA linear EST 16-SEP-2004
LOCUS	BP259517 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION	HRT07032, mRNA sequence.
ACCESSION	BP259517
VERSION	BP259517.1 GI:52174747
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 569) Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chida,U., Mitsushima-Sugano,J., Nakai,K. and Sugano,S. Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions Genome Res. 14 (9), 1711-1718 (2004) Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokane-dai, Minato-ku, Tokyo 108-8639, Japan Email: yusuzuki@ims.u-tokyo.ac.jp. location/Qualifiers
TITLE	
JOURNAL	
PUBMED	
COMMENT	
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Query Match	99.0%; Score 157.4; DB 3; Length 569;
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 61 CCTCAACAAGCAGCGTCAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATGGAATA 120
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QY 121 TGTCTCTTGCTGATCTGTATCATCGTATGCTTCTCTGA 159
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RESULT 73
 BP259093 570 bp mRNA linear EST 16-SEP-2004
 LOCUS BP259093 Sugano cDNA library, heart Homo sapiens cDNA clone
 DEFINITION HR05560, mRNA sequence.
 ACCESSION BP259093.1 GI:52174323
 VERSION BP259093.1
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 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 1 (bases 1 to 570)
 Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
 Mizushima-Sugano,J., Nakai,K. and Sugano,S.
 Sequence comparison of human and mouse genes reveals a homologous
 block structure in the promoter regions
 Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
 PUBMED 15342556
 CONTACT: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ims.u-tokyo.ac.jp.
 Location/Qualifiers

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 /mol_type="mRNA"
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QY 121 TGTCTCTTGCTGATCTGTATCATCGTATGCTTCTCTGA 159
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 DB 313 TGTCTCTTGCTGATCTGTATCATCGTATGCTTCTCTGA 351
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RESULT 74
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 LOCUS BP257806 Sugano cDNA library, heart Homo sapiens cDNA clone
 DEFINITION HR01924, mRNA sequence.
 ACCESSION BP257806

VERSION BP257806.1 GI:52173036
 EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 1 (bases 1 to 571)
 Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
 Mizushima-Sugano,J., Nakai,K. and Sugano,S.
 Sequence comparison of human and mouse genes reveals a homologous
 block structure in the promoter regions
 Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
 PUBMED 15342556
 CONTACT: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ims.u-tokyo.ac.jp.
 Location/Qualifiers

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Query Match 99.0%; Score 157.4; DB 3; Length 571;
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QY 121 TGTCTCTTGCTGATCTGTATCATCGTATGCTTCTCTGA 159
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RESULT 75
 BP258451 571 bp mRNA linear EST 16-SEP-2004
 LOCUS BP258451 Sugano cDNA library, heart Homo sapiens cDNA clone
 DEFINITION HR03478, mRNA sequence.
 ACCESSION BP258451
 VERSION BP258451.1 GI:52173681
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 1 (bases 1 to 571)
 Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
 Mizushima-Sugano,J., Nakai,K. and Sugano,S.
 Sequence comparison of human and mouse genes reveals a homologous
 block structure in the promoter regions
 Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
 PUBMED 15342556
 CONTACT: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ims.u-tokyo.ac.jp.
 Location/Qualifiers

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DB 61 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGTCTCATCTGAATA 120
272 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGTCTCATCTTAATA 331
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QY 121 TGTCTCTTGCTGATCTGTATCATCGTGATGCTTCTCTGA 159
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DB 332 TGTCTCTTGCTGATCTGTATCATCGTGATGCTTCTCTGA 370
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RESULT 76
LOCUS BP258954 571 bp mRNA linear EST 16-SEP-2004
DEFINITION BP258954 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT05061, mRNA sequence.
ACCESSION BP258954
VERSION BP258954.1 GI:52174184
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo
1 (bases 1 to 571)
Suzuki, Y., Yamashita, R., Shiota, M., Sakakibara, Y., Chiba, J.,
Mizushima-Sugano, J., Nakai, K. and Sugano, S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED 15342556
CONTACT: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

FEATURES
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Query Match 99.0%; Score 157.4; DB 3; Length 571;
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QY 1 ATGAGAAAGTCCATACCTCACTCGCTCAGCTATTAAGAAGCCCTCAACCATTTGAATG 60
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DB 195 ATGAGAAAGTCCATACCTCACTCGCTCAGCTATTAAGAAGCCCTCAACCATTTGAATG 254
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QY 61 CCTCAACAAGCAGCTCAAAAGCTACAGAAATCTATTATCAATTTCTGTCTCATCTGAATA 120
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DB 121 TGTCTCTTGCTGATCTGTATCATCGTGATGCTTCTCTGA 159
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DB 315 TGTCTCTTGCTGATCTGTATCATCGTGATGCTTCTCTGA 353
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RESULT 77
LOCUS BP257207 572 bp mRNA linear EST 16-SEP-2004
DEFINITION BP257207 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT00421, mRNA sequence.
ACCESSION BP257207
VERSION BP257207.1 GI:52172437
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo
1 (bases 1 to 572)
Suzuki, Y., Yamashita, R., Shiota, M., Sakakibara, Y., Chiba, J.,
Mizushima-Sugano, J., Nakai, K. and Sugano, S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED 15342556
CONTACT: Yutaka Suzuki
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Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 121 TGTCTCTTGCTGATCTGTATCATCGTGATGCTTCTCTGA 159
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DB 315 TGTCTCTTGCTGATCTGTATCATCGTGATGCTTCTCTGA 353
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RESULT 78
LOCUS BP260018 572 bp mRNA linear EST 16-SEP-2004
DEFINITION BP260018 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT08544, mRNA sequence.
ACCESSION BP260018
VERSION BP260018.1 GI:52175248
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo
1 (bases 1 to 572)
Suzuki, Y., Yamashita, R., Shiota, M., Sakakibara, Y., Chiba, J.,
Mizushima-Sugano, J., Nakai, K. and Sugano, S.
Sequence comparison of human and mouse genes reveals a homologous

block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
15342556
COMMENT Contact: Yutaka Suzuki
Department of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
FEATURES
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1..572
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Best Local Similarity 99.4%; Pred.No.2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 61 CCTCAACAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
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QY 121 TGTCTCTTGCTGATCTGTATCATGCTGATGCTTCTCTGA 159
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DB 316 TGTCTCTTGCTGATCTGTATCATGCTGATGCTTCTCTGA 354
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RESULT 79
BP258250 573 bp mRNA linear EST 16-SEP-2004
LOCUS BP258250 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT03019, mRNA sequence.
ACCESSION BP258250
VERSION BP258250.1 GI:52173480
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 573)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
JOURNAL PUBMED
COMMENT Contact: Yutaka Suzuki
Department of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
FEATURES
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QY 61 CCTCAACAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
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DB 223 CCTCAACAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTTAATA 282
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QY 121 TGTCTCTTGCTGATCTGTATCATGCTGATGCTTCTCTGA 159
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DB 283 TGTCTCTTGCTGATCTGTATCATGCTGATGCTTCTCTGA 321
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RESULT 80
BP260038 573 bp mRNA linear EST 16-SEP-2004
LOCUS BP260038 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT08582, mRNA sequence.
ACCESSION BP260038
VERSION BP260038.1 GI:52175268
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 573)
Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
JOURNAL PUBMED
COMMENT Contact: Yutaka Suzuki
Department of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
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QY 1 ATGAGAAAGTCCATACCTCACTGCTCAGCTATTAAGAAGAGCCTCAACATTGAATG 60
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DB 163 ATGAGAAAGTCCATACCTCACTGCTCAGCTATTAAGAAGAGCCTCAACATTGAATG 222
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QY 61 CCTCAACAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTGAATA 120
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DB 223 CCTCAACAGCAGCGTCAAAAGCTACAGATCTATTATCAATTTCTGCTCATCTTAATA 282
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QY 121 TGTCTCTTGCTGATCTGTATCATGCTGATGCTTCTCTGA 159
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DB 283 TGTCTCTTGCTGATCTGTATCATGCTGATGCTTCTCTGA 321
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RESULT 81
BP213150 575 bp mRNA linear EST 15-SEP-2004
LOCUS BP213150 Sugano cDNA library, cerebrum Homo sapiens cDNA clone
DEFINITION CBR06014, mRNA sequence.
ACCESSION BP213150
VERSION BP213150.1 GI:52086041

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KEYWORDS      EST.
SOURCE         Homo sapiens (human)
ORGANISM       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
                Homnidae; Homo.
REFERENCE      1 (bases 1 to 575)
AUTHORS        Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
                Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE          Sequence comparison of human and mouse genes reveals a homologous
                block structure in the promoter regions
JOURNAL        Genome Res. 14 (9), 1711-1718 (2004)
COMMENT        Contact: Yutaka Suzuki
                Department of Virology
                Institute of Medical Science, University of Tokyo
                4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                Email: yusuzuki@ims.u-tokyo.ac.jp.
                Location/Qualifiers
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Query Match      99.0%; Score 157.4; DB 3; Length 575;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY      61  CCTCAACAAGCAGCGCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 120
DB      258  CCTCAACAAGCAGCGCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTTAATA 317
QY      121  TGTCTTGTGCTGATCTGATCATCGTATCGTATGCTTCTCTGA 159
DB      318  TGTCTTGTGCTGATCTGATCATCGTATCGTATGCTTCTCTGA 356

RESULT 82
BP259468      575 bp      mRNA      linear      EST 16-SEP-2004
LOCUS         BP259468 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION    HRT06851, mRNA sequence.
ACCESSION     BP259468
VERSION       BP259468.1 GI:52174698
KEYWORDS      EST.
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
                Homnidae; Homo.
REFERENCE      1 (bases 1 to 575)
AUTHORS        Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
                Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE          Sequence comparison of human and mouse genes reveals a homologous
                block structure in the promoter regions
JOURNAL        Genome Res. 14 (9), 1711-1718 (2004)
COMMENT        Contact: Yutaka Suzuki
                Department of Virology
                Institute of Medical Science, University of Tokyo
                4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                Email: yusuzuki@ims.u-tokyo.ac.jp.
                Location/Qualifiers
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QY      61  CCTCAACAAGCAGCGCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 120
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/mol_type="mRNA"
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QY      1  ATGGAGAAAGTCCATACCTCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
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QY      61  CCTCAACAAGCAGCGCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 120
DB      256  CCTCAACAAGCAGCGCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTTAATA 315
QY      121  TGTCTTGTGCTGATCTGATCATCGTATCGTATGCTTCTCTGA 159
DB      316  TGTCTTGTGCTGATCTGATCATCGTATCGTATGCTTCTCTGA 354

RESULT 83
BP258116      576 bp      mRNA      linear      EST 16-SEP-2004
LOCUS         BP258116 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION    HRT02654, mRNA sequence.
ACCESSION     BP258116
VERSION       BP258116.1 GI:52173346
KEYWORDS      EST.
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
                Homnidae; Homo.
REFERENCE      1 (bases 1 to 576)
AUTHORS        Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
                Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE          Sequence comparison of human and mouse genes reveals a homologous
                block structure in the promoter regions
JOURNAL        Genome Res. 14 (9), 1711-1718 (2004)
COMMENT        Contact: Yutaka Suzuki
                Department of Virology
                Institute of Medical Science, University of Tokyo
                4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                Email: yusuzuki@ims.u-tokyo.ac.jp.
                Location/Qualifiers
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Query Match      99.0%; Score 157.4; DB 3; Length 576;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  ATGGAGAAAGTCCATACCTCACTGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
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QY      61  CCTCAACAAGCAGCGCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTGAATA 120
DB      223  CCTCAACAAGCAGCGCAAAAGCTACAGATCTATTATCAATTTCTGTCTCATCTTAATA 282
QY      121  TGTCTTGTGCTGATCTGATCATCGTATCGTATGCTTCTCTGA 159

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Db 283 TGTCTCTTGCTGATCTGTATCATCGTATGATGCTTCTCTGA 321

RESULT 84
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LOCUS BP259260 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HR006035, mRNA sequence.
ACCESSION BP259260
VERSION BP259260.1 GI:52174490
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 576)
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.

FEATURES
source location/Qualifiers
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/clone="HR006035"
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 163 ATGGAAGAAGTCCTACCTCACTGCTGCTATATAGAGAGCCTCAACATTGAATG 222
QY 61 CCTCAACAAGACGTCGCAAAAGCTACAGATCTATTATCAATTCTGCTCATCTGAATA 120
DB 223 CCTCAACAAGACGTCGCAAAAGCTACAGATCTATTATCAATTCTGCTCATCTTAATA 282
QY 121 TGTCTCTTGCTGATCTGTATCATCGTATGCTTCTCTGA 159
DB 283 TGTCTCTTGCTGATCTGTATCATCGTATGCTTCTCTGA 321

RESULT 85
BP277592 577 bp mRNA linear EST 16-SEP-2004
LOCUS BP277592 Sugano cDNA library, kidney Homo sapiens cDNA clone
DEFINITION KDN09443, mRNA sequence.
ACCESSION BP277592
VERSION BP277592.1 GI:52191324
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 577)
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions

JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
location/Qualifiers

FEATURES
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 205 ATGGAAGAAGTCCTACCTCACTGCTGCTATATAGAGAGCCTCAACATTGAATG 264
QY 61 CCTCAACAAGACGTCGCAAAAGCTACAGATCTATTATCAATTCTGCTCATCTGAATA 120
DB 265 CCTCAACAAGACGTCGCAAAAGCTACAGATCTATTATCAATTCTGCTCATCTTAATA 324
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DB 325 TGTCTCTTGCTGATCTGTATCATCGTATGCTTCTCTGA 363

RESULT 86
BP257169 578 bp mRNA linear EST 16-SEP-2004
LOCUS BP257169 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HR000281, mRNA sequence.
ACCESSION BP257169
VERSION BP257169.1 GI:52172399
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1 (bases 1 to 578)
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
location/Qualifiers

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QY	61	CCTCAACAAG	CAC	GTCA	AAAG	CTA	CAGA	TCT	ATT	TAT	CAAT	TTT	CTG	TCAT	CGA	TATA	120
DB	223	CCTCAACAAG	CAC	GTCA	AAAG	CTA	CAGA	TCT	ATT	TAT	CAAT	TTT	CTG	TCAT	CGA	TATA	282
QY	121	TGTCTCTT	GCT	GAT	CTG	TAT	CA	TCT	GAT	TGCT	CTCTGA	159					
DB	283	TGTCTCTT	GCT	GAT	CTG	TAT	CA	TCT	GAT	TGCT	CTCTGA	321					
RESULT 87																	
LOCUS	BP257607																
DEFINITION	BP257607	Sugano	CDNA	library,	heart	Homo sapiens	CDNA	clone									
ACCESSION	BP257607																
VERSION	BP257607.1	GI:52172837															
KEYWORDS	EST.																
SOURCE	Homo sapiens	(human)															
ORGANISM	Homo sapiens																
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.																
AUTHORS	1 (bases 1 to 578)																
TITLE	Suzuki,Y., Yamashita,R., Shirola,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.																
JOURNAL	Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions																
PUBMED	Genome Res. 14 (9), 1711-1718 (2004)																
COMMENT	15342556																
FEATURES	Contact: Yutaka Suzuki																
source	Department of Virology																
	Institute of Medical Science, University of Tokyo																
	4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan																
	Email: yusuzuki@ims.u-tokyo.ac.jp.																
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Matches 158;	Conservative 0;	Indels 1;	Gaps 0;														
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DB	192	ATGGAGAAGTC	AAT	TACT	CTC	TCT	CGT	CA	AGT	TAA	GAAG	GCT	CAAC	ATT	GAATG	251	
QY	61	CCTCAACAAG	CAC	GTCA	AAAG	CTA	CAGA	TCT	ATT	TAT	CAAT	TTT	CTG	TCAT	CGA	TATA	120
DB	252	CCTCAACAAG	CAC	GTCA	AAAG	CTA	CAGA	TCT	ATT	TAT	CAAT	TTT	CTG	TCAT	CGA	TATA	311
QY	121	TGTCTCTT	GCT	GAT	CTG	TAT	CA	TCT	GAT	TGCT	CTCTGA	159					
DB	312	TGTCTCTT	GCT	GAT	CTG	TAT	CA	TCT	GAT	TGCT							

SOURCE	Homo sapiens (human)			
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.			
REFERENCE	1 (bases 1 to 578)			
AUTHORS	Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.			
TITLE	Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions			
JOURNAL	Genome Res. 14 (9), 1711-1718 (2004)			
PUBMED	15342556			
COMMENT	Contact: Yuseka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokamedai, Minatoku, Tokyo 108-8639, Japan Email: yezuki@ims.u-tokyo.ac.jp. Location/Qualifiers			
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Oy	1	ATGAGAAAGTCCATACCTCACCCTCGCTCAGCTATAGAAAGGCTCAACCATGGAATG	60	
Db	163	ATGAGAAAGGCCAATACCTCACCCTCGCTCAGCTATAGAAAGGCTCAACCATGGAATG	222	
Oy	61	CCTCAACAGACGCTCAAAAGCTACAGAACTATTATTCATTCTGCTCATCTGATA	120	
Db	223	CCTCAACAGACGCTCAAAAGCTACAGAACTATTATTCATTCTGCTCATCTGATA	282	
Oy	121	TGCTCTTGCTGATCTGTATCATCGTATGATGCTTCTCTGA	159	
Db	283	TGCTCTTGCTGATCTGTATCATCGTATGATGCTTCTCTGA	321	
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LOCUS	BP259492			
DEFINITION	BP259492 Sugano cDNA library, heart Homo sapiens cDNA clone.			
ACCESSION	BP259492			
VERSION	BP259492.1			
KEYWORDS	GI:52174722			
SOURCE	EST.			
ORGANISM	Homo sapiens (human)			
	Homo sapiens			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.			
REFERENCE	1 (bases 1 to 578)			
AUTHORS	Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.			
TITLE	Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions			
JOURNAL	Genome Res. 14 (9), 1711-1718 (2004)			
PUBMED	15342556			
COMMENT	Contact: Yuseka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokamedai, Minatoku, Tokyo 108-8639, Japan Email: yezuki@ims.u-tokyo.ac.jp. Location/Qualifiers			
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Best Local Similarity	99.4%;	Pred. No. 2.5e-35;	
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Dd	162	ATGGAGAAAGTCCATACTCCTGCTCGTCAGCTATTAGAAGAGCCCTCAACCATTTGAATG	221
OY	61	CCTCAACAAGCAGCGTCAAAAGCTACAGAACTATTATTCOAATTTCTGTCTCTGAATA	120
Dd	222	CCTCAACAAGCAGCGTCAAAAGCTACAGAACTATTATTCOAATTTCTGTCTCTTAATA	281
OY	121	TGTCCTTGCTGATCTGATCATGTGTATGCTGCTCTCTA	159
Dd	282	TGTCCTTGCTGATCTGATCATGTGTATGCTGCTCTCTA	320
RESULT 90			
LOCUS	BP257557	579 bp	mRNA linear EST 16-SEP-2004
DEFINITION	BP257557 Sugano cDNA library, heart Homo sapiens cDNA clone		
ACCESSION	HRT01241, mRNA sequence.		
VERSION	BP257557		
KEYWORDS	BP257557.1 GI:52172787		
SOURCE	EST.		
ORGANISM	Homo sapiens (human)		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;		
	Hominoidea; Homo		
REFERENCE	1 (bases 1 to 579)		
AUTHORS	Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,		
TITLE	Mizushima-Sugano,J., Nakai,K. and Sugano,S.		
JOURNAL	Sequence comparison of human and mouse genes reveals a homologous		
PUBMED	block structure in the promoter regions		
COMMENT	Genome Res. 14 (9), 1711-1718 (2004)		
	Contact: Yutaka Suzuki		
	Department of Virology		
	Institute of Medical Science, University of Tokyo		
	4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan		
	Email: yusuzuki@ims.u-tokyo.ac.jp.		
FEATURES	Location/Qualifiers		
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Matches 158;	Conservative 0;	Mismatches 1;	Indels 0; Gaps 0;
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Dd	194	ATGGAGAAAGTCCATACTCCTGCTCGTCAGCTATTAGAAGAGCCCTCAACCATTTGAATG	253
OY	61	CCTCAACAAGCAGCGTCAAAAGCTACAGAACTATTATTCOAATTTCTGTCTCTGAATA	120
Dd	254	CCTCAACAAGCAGCGTCAAAAGCTACAGAACTATTATTCOAATTTCTGTCTCTTAATA	313
OY	121	TGTCCTTGCTGATCTGATCATGTGTATGCTGCTCTCTA	159
Dd	314	TGTCCTTGCTGATCTGATCATGTGTATGCTGCTCTCTA	352

RESULT	91			
LOCUS	BP258523			
DEFINITION	BP258523 Sugano cDNA library, heart Homo sapiens cDNA clone			
ACCESSION	HRT03717, mRNA sequence.			
VERSION	BP258523			
KEYWORDS	EST.			
SOURCE				
ORGANISM	Homo sapiens (human)			
REFERENCE	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominiidae; Homo. 1 (bases 1 to 579) Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,U., Nakai,K. and Sugano,S. Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions Genome Res. 14 (9), 1711-1718 (2004)			
JOURNAL				
PUBMED	15342556			
COMMENT	Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Email: yusuzuki@ims.u-tokyo.ac.jp. Location/Qualifiers 1..579 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="HRT03717" /tissue_type="heart" /clone_lib="Sugano cDNA library, heart"			
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RESULT	92			
LOCUS	BP258972			
DEFINITION	BP258972 Sugano cDNA library, heart Homo sapiens cDNA clone			
ACCESSION	HRT05129, mRNA sequence.			
VERSION	BP258972			
KEYWORDS	EST.			
SOURCE				
ORGANISM	Homo sapiens (human)			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominiidae; Homo. 1 (bases 1 to 579) Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,U., Nakai,K. and Sugano,S. Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions Genome Res. 14 (9), 1711-1718 (2004)			
JOURNAL				

PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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source 1..579
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Query Match 99.0%; Score 157.4; DB 3; Length 579;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAGAAAGTCCATACCTCACTCGCTCAGCTATAGAAGGCTCAACCATTTGAATG 60
Db 163 ATGGAGAAAGTCCATACCTCACTCGCTCAGCTATAGAAGGCTCAACCATTTGAATG 222
QY 61 CCTCAACAAGCAGTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTGAATA 120
Db 223 CCTCAACAAGCAGTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTTAATA 282
QY 121 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 159
Db 283 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 321

RESULT 93
LOCUS BP259815 579 bp mRNA linear EST 16-SEP-2004
DEFINITION BP259815 Sugano cDNA library, heart Homo sapiens cDNA clone
ACCESSION BP259815
VERSION BP259815.1 GI:52175045
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Carchinhii;
Homnidae; Homo.
1 (bases 1 to 579)
Suzuki, Y., Yamashita, R., Shirota, M., Sakakibara, Y., Chiba, J.,
Mizushima-Sugano, J., Nakai, K. and Sugano, S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)

JOURNAL
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

FEATURES
source 1..579
/organism="Homo sapiens"
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QY 1 ATGGAGAAAGTCCATACCTCACTCGCTCAGCTATAGAAGGCTCAACCATTTGAATG 60

Db 164 ATGGAGAAAGTCCATACCTCACTCGCTCAGCTATAGAAGGCTCAACCATTTGAATG 243
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Db 244 CCTCAACAAGCAGTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTTAATA 303
QY 121 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 159
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RESULT 94
LOCUS AU310795 580 bp mRNA linear EST 19-APR-2005
DEFINITION AU310795 human 4S neuroblastoma cDNA Homo sapiens cDNA clone
NBla-24134 5', mRNA sequence.
ACCESSION AU310795
VERSION AU310795.1 GI:62740993
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Carchinhii;
Homnidae; Homo.
1 (bases 1 to 580)
Ohira, M., Oba, S., Nakamura, Y., Isogai, E., Kaneko, S., Hirata, T.,
Kubo, H., Goto, T., Yamada, S., Yoshida, Y., Ishii, S. and Nakagawara, A.
Construction of a neuroblastoma cDNA microarray and its use for the
expression profiling of primary neuroblastomas
Unpublished (2005)
Contract: Akira Nakagawara
Division of Biochemistry
Chiba Cancer Center Research Institute
666-2 Nitona, Chuoh-ku, Chiba 260-8717, Japan
Tel: 81-43-264-5431 (ex.5201)
Fax: 81-43-265-4459
Email: akiranaka@chiba-cs.jp.
Location/Qualifiers

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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAGAAAGTCCATACCTCACTCGCTCAGCTATAGAAGGCTCAACCATTTGAATG 60
Db 195 ATGGAGAAAGTCCATACCTCACTCGCTCAGCTATAGAAGGCTCAACCATTTGAATG 254
QY 61 CCTCAACAAGCAGTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTGAATA 120
Db 255 CCTCAACAAGCAGTCAAAAGCTACAGATCTATTATCAATTTCTGTCATCTTAATA 314
QY 121 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 159
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RESULT 95
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DEFINITION BP257104 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT00137, mRNA sequence.
ACCESSION BP257104
VERSION BP257104.1 GI:52172334
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
AUTHORS 1 (bases 1 to 580)
TITLE Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.
JOURNAL Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
PUBMED Genome Res. 14 (9), 1711-1718 (2004)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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Query Match 99.0%; Score 157.4; DB 3; Length 580;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGAGAAAGTCATACCTCAGCTCAGCTATTAAGAAGCCTCAACCATTTGAATG 60
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DB 221 CCTCAACAGACGTCACAAAGCTACAGATCATTTATCAATTTCTGTCATCTTAATA 280
QY 121 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 159
DB 281 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 319

RESULT 96
BP257141 580 bp mRNA linear EST 16-SEP-2004
LOCUS BP257141 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT00237, mRNA sequence.
ACCESSION BP257141
VERSION BP257141 GI:52172371
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
AUTHORS 1 (bases 1 to 580)
TITLE Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.
JOURNAL Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
PUBMED Genome Res. 14 (9), 1711-1718 (2004)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 224 CCTCAACAGACGTCACAAAGCTACAGATCATTTATCAATTTCTGTCATCTTAATA 283
QY 121 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 159
DB 284 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 322

RESULT 97
BP257154 580 bp mRNA linear EST 16-SEP-2004
LOCUS BP257154 Sugano cDNA library, heart Homo sapiens cDNA clone
DEFINITION HRT00256, mRNA sequence.
ACCESSION BP257154
VERSION BP257154 GI:52172384
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
AUTHORS 1 (bases 1 to 580)
TITLE Suzuki,Y., Yamashita,R., Shirota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.
JOURNAL Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
PUBMED Genome Res. 14 (9), 1711-1718 (2004)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp.
Location/Qualifiers

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Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 283 TGTCTCTTGCTGATCTGTATCATCTGTGATGCTTCTCTGA 321

RESULT 98
LOCUS BP257167 580 bp mRNA linear EST 16-SEP-2004
DEFINITION BP257167 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT00276, mRNA sequence.
ACCESSION BP257167
VERSION BP257167.1 GI:52172397
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.
1 (bases 1 to 580)
Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
JOURNAL
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ms.u-tokyo.ac.jp.
Location/Qualifiers
1..580
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Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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DB 255 CCTCAACAAGCAGCTCAAAAGCTACAGAACTATTATCAATTCTGTCTCATCTTAATA 314
QY 121 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 159
DB 315 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 353
RESULT 99
LOCUS BP257171 580 bp mRNA linear EST 16-SEP-2004
DEFINITION BP257171 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT00288, mRNA sequence.
ACCESSION BP257171
VERSION BP257171.1 GI:52172401
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.
1 (bases 1 to 580)
Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
JOURNAL

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COMMENT Contact: Yutaka Suzuki
Department of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ms.u-tokyo.ac.jp.
Location/Qualifiers
1..580
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QY 1 ATGGAAGAAGTCCATACCTCACTGCTCAGCTATATAGAAGCCTCAACCATTTGAATG 60
DB 194 ATGGAGAAGTCCATACCTCACTGCTCAGCTATATAGAAGCCTCAACCATTTGAATG 253
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DB 254 CCTCAACAAGCAGCTCAAAAGCTACAGAACTATTATCAATTCTGTCTCATCTTAATA 313
QY 121 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 159
DB 314 TGTCTCTTGCTGATCTGATCATCGTGATGCTTCTCTGA 352
RESULT 100
LOCUS BP257191 580 bp mRNA linear EST 16-SEP-2004
DEFINITION BP257191 Sugano cDNA library, heart Homo sapiens cDNA clone
HRT00353, mRNA sequence.
ACCESSION BP257191
VERSION BP257191.1 GI:52172421
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homniidae; Homo.
1 (bases 1 to 580)
Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J.,
Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Sequence comparison of human and mouse genes reveals a homologous
block structure in the promoter regions
Genome Res. 14 (9), 1711-1718 (2004)
JOURNAL
PUBMED 15342556
COMMENT Contact: Yutaka Suzuki
Department of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ms.u-tokyo.ac.jp.
Location/Qualifiers
1..580
/organism="Homo sapiens"
/mol_type="mRNA"
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ORIGIN
Query Match 99.0%; Score 157.4; DB 3; Length 580;
Best Local Similarity 99.4%; Pred. No. 2.5e-35;
Matches 158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGGAAGAAGTCCATACCTCACTGCTCAGCTATATAGAAGCCTCAACCATTTGAATG 60

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Qy 61 CCTCAACAAGCAAGTCAAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTGAATA 120
Db 257 CCTCAACAAGCAAGTCAAAAAGCTACAGAAATCTATTATCAATTTCTGCTCATCTTAATA 316
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